

FOR AREA OF CONCERN C

NAVAL STATION MAYPORT MAYPORT, FLORIDA

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

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CONTRACT NUMBER N62467-04-D-0055 CONTRACT TASK ORDER 0033

MARCH 2007

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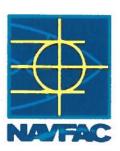
PROFESSIONAL ENGINEER CERTIFICATION

This document, Corrective Measures Study for Area of Concern C, Naval Station Mayport, Mayport, Florida, has been prepared under the direction of a Florida Registered Professional Engineer. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. This document was prepared for Naval Station Mayport, Mayport, Florida, and should not be construed to apply to any other site.

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FOREWORD

To meet its mission objectives, the United States Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense initiated various programs to investigate and remediate conditions related to suspect past releases of hazardous materials at their facilities.

One of these programs is the Installation Restoration (IR) program. This program complies with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended by the Superfund Amendments and Reauthorization Act. The acts, passed by Congress in 1980 and 1986, respectively, established the means to assess and cleanup hazardous waste sites for both private-sector and federal facilities. These acts are the basis for what is commonly known as the Superfund program.

Originally, the Navy's part of this program was called the Navy Assessment and Control of Installation Pollutants (NACIP) program. Early reports reflect the NACIP process and terminology. The Navy eventually adapted the program structure and terminology of the standard IR program.

The IR program is conducted in several stages as follows:

- The preliminary assessment (PA) identifies potential sites through record searches and interviews.
- A site inspection (SI) then confirms which areas contain contamination, constituting actual "sites".
 (Together, the PA and SI steps were called the Initial Assessment Study under the NACIP program.)
- Next, the remedial investigation and the feasibility study (RI/FS) together determine the type and extent of contamination, establish criteria for cleanup, and identify and evaluate any necessary

remedial action alternatives and their costs. As part of the RI/FS, a risk assessment identifies potential effects on human health or the environment to help evaluate remedial action alternatives.

The selected alternative is planned and conducted in the remedial design and remedial action stages.
 Monitoring then ensures the effectiveness of the effort.

A second program to address present hazardous material management is the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. This program is designed to identify and cleanup releases of hazardous substances at RCRA-permitted facilities. RCRA ensures that solid and hazardous wastes are managed in an environmentally sound manner. The law applies primarily to facilities that generate or handle hazardous waste.

The RCRA program is conducted in the following three stages.

- The RCRA facility assessment identifies solid waste management units (SWMUs), evaluates the potential for releases of contaminants, and determines the need for future investigations.
- The RCRA facility investigation (RFI) then determines the nature, extent, and fate of contaminant releases.
- The Corrective Measures Study (CMS) identifies and recommends measures to correct the release.

The hazardous waste investigations at Naval Station (NAVSTA) Mayport are presently being conducted under the RCRA Corrective Action Program. Earlier preliminary investigations had been conducted at NAVSTA Mayport under the Navy's NACIP program and IR program following Superfund guidelines. In 1988, in coordination with the United States Environmental Protection Agency (USEPA) and the Florida Department of Environmental Regulation, now known as the Florida Department of Environmental Protection (FDEP), the hazardous waste investigations were formalized under the RCRA program.

Mayport is conducting the cleanup at their facility by working through the Naval Facilities Engineering Command Southeast. The USEPA and the FDEP oversee the Navy environmental program. All aspects of the program are conducted in compliance with state and federal regulations, as ensured by the participation of these regulatory agencies.

Questions regarding the RCRA program at NAVSTA Mayport should be addressed to Cheryl Mitchell (Code N4E) (904) 270-6730.

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ACRONYMS AND ABBREVIATIONS

ABB-ES ABB Environmental Services, Inc.

AOC Area of Concern

ARAR applicable or relevant and appropriate requirement

AST aboveground storage tank

bgs below ground surface

BSV background screening value

CAMP Corrective Action Management Plan

CAO Corrective Action Objective

CAR Contamination Assessment Report

CFR Code of Federal Regulations

CLEAN Comprehensive Long-term Environmental Action Navy

CMIP Corrective Measures Implementation Plan

CMS Corrective Measures Study

COC contaminant of concern contaminant of interest

COPC contaminant of potential concern

CTL cleanup target level

DCE dichloroethene

DPT direct push technology

ELCR excess lifetime cancer risk

ERA Ecological Risk Assessment

ESE Environmental Science and Engineering

FAC Florida Administrative Code

FDEP Florida Department of Environmental Protection

ft/day feet per day ft/yr feet per year

GC gas chromatograph

GCTL Groundwater Cleanup Target Level

GIR General Information Report
HLA Harding Lawson & Associates

HI Hazard Index
HQ Hazard Quotient

HSWA Hazardous and Solid Waste Amendments

ICON Environmental Services, Inc.

IM interim measure

ACRONYMS AND ABBREVIATIONS (Continued)

IR Installation Restoration LDR land disposal restriction

LUC land use control

MCL Maximum Contaminant Level MCS Media Cleanup Standard mg/kg milligrams per kilogram mg/L milligrams per liter msl mean sea level

NACIP Navy Assessment and Control of Installation Pollutants

NADEP Naval Aviation Depot

NADSC Natural Attenuation Default Source Concentration NAVFAC SE Naval Facilities Engineering Command Southeast

NAVSTA Naval Station

NELP Navy Environmental Leadership Program

NFA No Further Action NPW net present worth

O&M operations and maintenance ORC oxygen-release compound ORP oxygen/reduction potential

OSHA Occupational Safety and Health Act

PA preliminary assessment

PCE tetrachloroethene

POTW **Publicly Owned Treatment Works** PPE personal protective equipment PRB

permeable reactive barrier

RCRA Resource Conservation and Recovery Act

RFA **RCRA Facility Assessment** RFI RCRA Facility Investigation

RI/FS Remedial Investigation/Feasibility Study

SCTL Soil Cleanup Target Level

SERMC Southeast Regional Maintenance Center

SI site inspection

SIMA Shore Intermediate Maintenance Activity

SVOC semivolatile organic compound

SWCTL Surface Water Cleanup Target Level

ACRONYMS AND ABBREVIATIONS (Continued)

SWMU Solid Waste Management Unit

TCE trichloroethene

TDS total dissolved solids
TKN total Kjeldahl nitrogen
TOC total organic carbon
TtNUS Tetra Tech NUS, Inc.
UCL upper confidence level
µg/L micrograms per liter

USACE United States Army Corps of Engineers

USEPA United States Environmental Protection Agency

USGS United States Geological Survey

VC vinyl chloride

VOC volatile organic compound

VSI Visual Site Inspection

EXECUTIVE SUMMARY

A Corrective Measures Study (CMS) has been conducted for Area of Concern (AOC) C at Naval Station (NAVSTA) Mayport, in Mayport, Florida, for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE), pursuant to the Resource Conservation and Recovery Act (RCRA). This CMS was conducted in accordance with the Hazardous and Solid Waste Amendments (HSWA) Permit 72442-H0-003, revised and reissued by the Florida Department of Environmental Protection (FDEP) in August 2005. The HSWA/RCRA program is designed to identify and cleanup releases of hazardous substances at RCRA-permitted facilities. RCRA ensures that solid and hazardous wastes are managed in an environmentally sound manner. The law applies primarily to facilities that generate or handle hazardous waste.

The RCRA program is conducted in the following three stages:

- The RCRA Facility Assessment (RFA) identifies solid waste management units (SWMUs), evaluates the potential for releases of contaminants, and determines the need for future investigations.
- 2. The RCRA Facility Investigation (RFI) then determines the nature, extent, and fate of contaminant releases.
- 3. The CMS identifies and recommends measures to correct the releases.

The RFI Report for AOC C was issued in August 2003. This report presents the results of the CMS, including the following:

- 1. Determination of the Media Cleanup Standards (MCSs) using the recently approved regulation Chapter 62-777, Florida Administrative Code (FAC).
- 2. Selection of contaminants of concern (COCs).
- 3. Determination of areas and volumes of impacted media exceeding the MCSs.
- 4. Development, screening, and evaluation of corrective measure alternatives.
- 5. Recommendation of corrective action to address contaminated media.

This CMS report contains the results of the identification, screening, and evaluation of corrective measure alternatives for all media at AOC C.

Area of Concern C, Building 191

AOC C, Building 191, is located in the southeastern portion of the NAVSTA Mayport Turning Basin. Storage areas at Building 191 are used to support ship and shore services at NAVSTA Mayport by providing areas to receive, temporarily store, and distribute supplies. The outlying buildings are used to store warehouse hazardous materials such as solvents and compressed gases. The original boundary of AOC C contained Building 191, Building 1488, and buildings and facilities around the southern portion of Echo Pier.

An investigation conducted in the vicinity of Building 191 to determine the impact of a tetrachloroethene (PCE) release reported the presence of chlorinated compounds in the groundwater near Building 191 along with vinyl chloride downgradient of Building 191 at Echo Pier. It was presumed that the detections on Echo Pier were related to the contaminants detected near Building 191. This led to the formation of AOC C as a formal investigative unit. It was determined after the RFI that there was no correlation between the detections at Building 191 and Echo Pier. As a result, the NAVSTA Mayport Partnering Team revised the boundaries of AOC C to include only Building 191 and a small section of parking lot along its northern side (October Partnering Minutes, 2005).

An interim measure (IM) was conducted to remove contaminated surface soil/sediment from the ditches in front of Building 191 in 2006. Removal of the contaminated soil resulted in soils being eliminated as a media of concern at AOC C.

Surface Soil - AOC C

No surface soil COCs exceeding FDEP residential direct exposure SCTLs or SCTLs for leaching to groundwater were identified for AOC C. Therefore, no further action (NFA) is recommended for surface soil at AOC C.

Subsurface Soil - AOC C

No subsurface soil COCs exceeding FDEP residential direct exposure SCTLs or SCTLs for leaching to groundwater were identified for AOC C. Therefore, NFA is recommended for subsurface soil at AOC C.

Surface Water – AOC C

No surface water COCs were identified for AOC C. No action is recommended for surface water at AOC C.

Groundwater – AOC C

Vinyl chloride (VC) and 1,1-dichlorethene (DCE) were the only contaminants in groundwater that exceeded their respective MCS at AOC C. The corrective action for groundwater at AOC C includes approximately 822,000 gallons of contaminated groundwater. Three alternatives were developed for groundwater contamination at AOC C. The alternatives are as follows:

- Groundwater Alternative 1: No Action
- Groundwater Alternative 2: Natural Attenuation, Land Use Controls (LUCs), and Monitoring
- Groundwater Alternative 3: In-Situ Bioremediation, LUCs, and Monitoring

The recommended corrective measure alternative for groundwater at AOC C is Alternative 2. Alternative 2 would implement LUCs to address the limited groundwater contamination at AOC C and prevent the surficial aquifer from being used as a potable water source. Monitoring would assess groundwater quality on an ongoing basis and provide data to verify if the contaminant concentrations in groundwater are decreasing. This alternative would rely on natural attenuation processes in addressing the contaminated groundwater. Natural attenuation has been successful at many sites to address limited groundwater contamination. A more aggressive treatment process is not required because the surficial aquifer is not currently used as a potable water source and impact to the ecological receptors is minimal.

As there are relatively low concentrations of COCs [maximum detected concentrations of 2.2 and 14 micrograms per liter (μ g/L) for VC and 1,1-DCE, respectively] in the groundwater, LUCs with monitoring would provide adequate and cost-effective protection of human health and the environment. The MCSs for VC and 1,1-DCE are 1.0 μ g/L and 7 μ g/L, respectively. Monitoring of LUCs would ensure the surficial aquifer is not used as a potable water source or for residential use (e.g., irrigation). Monitoring the groundwater would verify if any potential danger to the environment or human health was present. The estimated net present worth (NPW) of the total project cost for Alternative 2 over a 30-year timeframe is \$263,000, which includes \$10,000 for each 5-year review.

The NAVSTA Mayport Partnering Team concurred that implementing LUCs with monitoring would be the most reasonable alternative to address groundwater contamination at AOC C. This decision was made based upon the fact that there is no known source for the site COCs and the site groundwater is not used as a drinking water source. VC and 1,1-DCE were each detected in one site monitoring well at low concentrations that slightly exceeded their respective MCS. Confirmation samples collected during the CMS indicated that COC concentrations had decreased significantly since the RFI sampling event (5-year span). As a result, it was determined that monitored natural attenuation would likely address groundwater contamination at AOC C in a cost effective manner that is protective of both human health and the environment.

1.0 INTRODUCTION

A CMS has been conducted for AOC C at NAVSTA Mayport, in Mayport, Florida, by NAVFAC SE, pursuant to the RCRA. Tetra Tech NUS, Inc. (TtNUS) has been contracted by the United States Navy, NAVFAC SE, to complete this CMS under Contract Task Order 0033, Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-94-D-0055. This report presents the results of the CMS.

1.1 SITE BACKGROUND

An accident report dated May 4, 1993, documented that approximately 25 to 30 gallons of PCE (a solvent used for dry cleaning) were released from a punctured 55-gallon drum onto asphalt pavement. The release was located north of Building 191 between Buildings 281 and 191-A and was reported to have been contained before it could enter a nearby storm water inlet located approximately 130 feet from the release. ABB Environmental Services, Inc. (ABB-ES) was contracted in 1997 to conduct a groundwater investigation at Building 191 in response to the PCE spill. ICON Environmental Services, Inc. (ICON) also participated in this investigation under the Navy Environmental Leadership Program (NELP). The results of this investigation along with the presence of VC in the groundwater at Echo Pier led to the formation of AOC C as an investigation unit.

1.2 FACILITY DESCRIPTION

NAVSTA Mayport is located within the corporate limits of the city of Jacksonville, Duval County, Florida, approximately 12 miles to the northeast of downtown Jacksonville, and adjacent to the town of Mayport (Figure 1-1). The station complex is located on the northern end of a peninsula bound by the Atlantic Ocean to the east and the St. Johns River to the north and west. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, located to the west between the station and the St. Johns River.

NAVSTA Mayport was commissioned in 1942 on approximately 700 acres of land. The station initially consisted of a harbor and an airfield located near the mouth of the St. Johns River. The harbor and airfield were constructed from the dredging and filling of Ribault Bay. The harbor was initially dredged to a depth of 29 feet below mean sea level (msl) and is referred to as the Mayport Turning Basin. The Mayport Turning Basin is surrounded on three sides by ship piers and wharves.

The original mission of the station included use by patrol craft, target boats, and rescue boats. The station was placed in caretaker status from 1946 to 1948. In 1948, the station was reopened, and in 1952, an aircraft carrier was assigned to the station. The turning basin was dredged to a depth of 40 ft to

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allow aircraft carriers and other large ships to berth at NAVSTA Mayport. Using dredge material to fill areas south of the turning basin increased the amount of uplands at NAVSTA Mayport.

NAVSTA Mayport provides all necessary support services for the surface fleet and aircraft stationed at or visiting Mayport. This support includes a variety of services, including infrastructure support, personnel support, facilities support, and ship and aircraft repair and maintenance.

Industrial operations conducted at NAVSTA Mayport involve intermediate level maintenance for both ships and aircraft and vehicle maintenance and repair. Any maintenance activities that can be conducted without putting a ship into dry-dock are considered intermediate. Squadron personnel perform aircraft maintenance in the hangar buildings.

Maintenance and repair operations for ships are carried out by two organizations at NAVSTA Mayport: Southeast Regional Maintenance Center (SERMC) and Naval Aviation Depot (NADEP). Building 1488 [formerly Shore Intermediate Maintenance Activity (SIMA)] and Supervisor of Shipbuilding were combined to form SERMC. SERMC conducts repair and maintenance operations onboard ships at the piers/wharves and in the SERMC operations building. SERMC also contracts out maintenance and repair work. NADEP conducts maintenance operations on aircraft launching and arresting systems in its own building on the station.

1.3 REGULATORY SETTING AND FACILITY BACKGROUND

The USEPA issued RCRA Permit Number H016-118598 and HSWA Permit Number FL9 170 024 260 to NAVSTA Mayport on March 25, 1988. The permit was revised and renewed on June 15, 1993. Full RCRA authority to issue HSWA permits was delegated to the State of Florida in November 2000, and the FDEP issued the current RCRA operating permit, including the HSWA Corrective Action, to NAVSTA Mayport on August 30, 2006.

A RFA/Visual Site Inspection (VSI) for NAVSTA Mayport was conducted for the USEPA Region IV in 1989 (Kearny, 1989). The RFA/VSI identified 56 SWMUs and 2 AOCs at NAVSTA Mayport. These SWMUs and AOCs (A and B) were included in the HSWA permit. Fifteen of these SWMUs were determined to require no action. Twenty-three of the remaining SWMUs and the two AOCs (A and B) were determined to require further investigation because hazardous substance releases to the environment were suspected, but not confirmed. The remaining 18 SWMUs were determined to require an RFI because hazardous substance releases to the environment were confirmed and required further characterization to determine the nature and extent of contamination.

Of these 18 SWMUs, 17 were identified in the HSWA permit. The additional SWMU, Building 1600 Blasting Area, was identified during the RFA/VSI and determined to require an RFI. The Navy prepared a final draft RFI Work Plan (C. E. Environmental, 1989) in response to the HSWA permit requirement addressing the 17 permitted SWMUs. The final draft RFI Work Plan was reviewed by applicable regulatory agencies, and their comments were reviewed by the Navy on May 6, 1991 (USEPA, 1991). The USEPA reported in their comments on the final RFI Work Plan that they would address the remaining 39 SWMUs identified during the RFA/VSI under revised permit conditions at a later date. The final draft RFI Work Plan was revised, the Building 1600 Blasting Area was added to the RFI, and a Corrective Action Management Plan (CAMP) was added.

The CAMP contained in the final RFI Work Plan grouped the 56 SWMUs into four groups. Three of these groups were defined geographically by their proximity to one another and to site features such as wetlands, rivers, and land use patterns. The fourth group contains SWMUs and AOCs associated with utility networks and appurtenances that span multi-geographic regions at NAVSTA Mayport.

The CAMP also prioritized the SWMUs according to the perceived relative risks posed by the SWMUs based on the existing knowledge of the sites and past releases. Group I was the highest priority group of SWMUs. The Groups II, III, IV, and AOC C were assigned sequentially lower priorities. A revised CAMP was issued in March 1995 in response to the HSWA permit renewal (ABB-ES, 1995a). The CAMP is revisited every year to incorporate the latest descriptions of the phased approach, proposed schedule, and strategy to implement the RCRA Corrective Action Program at NAVSTA Mayport. AOC C officially became an investigative unit when it was added to the CAMP in 1999 and required an RFI.

AOC C RFI field activities were conducted between 1999 and 2002. The Final RFI for AOC C dated August 2003 recommended that a CMS be conducted to evaluate and recommend a remedial action to mitigate groundwater contamination at AOC C.

1.4 PURPOSE

The purpose of this CMS for AOC C at NAVSTA Mayport is as follows:

- Determination of the MCSs using the recently approved (April 2005) regulation Chapter 62-777,
 FAC.
- 2. Selection of COCs.
- Determination of areas and volumes of impacted media exceeding the MCSs.
- 4. Development, screening, and evaluation of corrective measure alternatives.
- 5. Recommendation of corrective action to address contaminated media at AOC C.

1.5 CMS METHODOLOGY

This CMS for AOC C uses the CMS process described in the CMS Work Plan (ABB-ES, 1995b) for NAVSTA Mayport with the incorporation of the USEPA guidance for conducting a CMS (USEPA, 1994). The purpose of the CMS is to identify, evaluate, and recommend corrective action for SWMUs or AOCs that warrant such action based on the results of the RFI.

Investigation data documented in the station-wide General Information Report (GIR), the RFI Report, and subsequent IM programs conducted at AOC C were reviewed to gain an understanding of the AOC's physical setting, past history, current conditions, and future land uses. Available validated analytical data for all environmental media were assembled into a single CMS database. The following key components were considered in identifying appropriate corrective action:

- <u>Corrective Action Objectives (CAOs)</u>. CAOs are developed to specify the contaminants, media of interest, exposure pathways, and corrective action goals for an AOC.
- MCSs. MCSs are developed based on regulatory requirements, when available, site-specific risk-based factors, or other available information (e.g., leachability of contaminants from soil to groundwater). MCSs were derived for both human and ecological receptors from information presented in the RFI and IM reports, or were developed based on the State of Florida Chapter 62-777, FAC, Cleanup Target Level (CTL) criteria for each medium of concern.
- COCs. Contaminants detected in the media of concern were compared against promulgated regulatory standards or other applicable or relevant and appropriate requirements (ARARs) criteria to identify contaminants of potential concern (COPCs) in each environmental medium for both human and ecological receptors. COCs are developed from the list of COPCs determined in the RFI Report or as updated in the CMS. COCs define the contaminants that will be evaluated for corrective action in the CMS.
- Volumes of Media of Concern. The volumes (or areas) of media of concern at AOC C are determined by considering the requirements for protectiveness as identified in the CAOs and the chemical and physical characterization of the site (i.e., the results and conclusions of the RFI and post-RFI activities). Essentially, the area and depth of a given medium containing concentrations of COCs that exceed the MCSs were used to define the volumes of media of concern.
- Applicable Technologies. Technologies applicable to remediating contaminated media at AOC C are identified and screened. Technologies that cannot be implemented technically are eliminated.

- <u>Corrective Measure Alternatives</u>. Technologies that pass the screening phase are assembled into corrective measure alternatives.
- <u>Evaluation of Corrective Measure Alternatives</u>. Recommended corrective measure alternatives are described and evaluated using four criteria: technical, environmental, human health, and institutional factors.
- Recommendation of Corrective Action. The results of the evaluation of alternatives are summarized and a corrective action is recommended for AOC C.

These components are described further in the CMS Work Plan for NAVSTA Mayport (ABB-ES, 1995b). More detailed discussion of the methodology for MCSs, COCs, and COPCs used in this CMS is provided in the following sections.

1.5.1 <u>Contaminants of Concern</u>

The determination of COCs for each medium involves a three-step process:

- 1. Determine the Contaminants of Interest (COIs).
- Identify the COPCs.
- Select the COCs.

COIs and COPCs were determined in the RFI; however, since the RFI was issued additional data have been collected and new regulations have been promulgated. The new regulations updated by FDEP were effective as of April 17, 2005. Therefore, the COIs and COPCs are reevaluated.

1.5.1.1 Contaminants of Interest

The COIs include any contaminant detected at least once in validated analytical results for environmental samples in any medium at the site during any sampling event. For this CMS, the list of COIs originally presented in the RFI was revised by including any contaminants that were detected during any environmental sampling program conducted after the RFI (e.g., IM actions). The lists of COIs for AOC C are presented in Section 3.

1.5.1.2 Contaminants of Potential Concern

The selection of COPCs was based on the list of COIs and considered the concentration, occurrence, and distribution of contaminants detected in the environmental media and the environmental conditions at AOC C. The COPC selection considered all available validated soil and groundwater sample results and included several rounds of sampling conducted after the RFI Report was submitted.

Calcium, magnesium, potassium, and sodium were considered to be essential human nutrients and were not considered in the COPC selection process. In addition, several water quality parameters that were measured during the groundwater analyses were not evaluated, including alkalinity, hardness, sulfide, total dissolved solids (TDS), total Kjeldahl nitrogen (TKN), total organic carbon (TOC), and total phosphorus.

<u>Soil</u>

The COPC selection process for soil was conducted in two separate evaluations: direct exposure and leachability. The direct exposure evaluation was performed in a two step process: initial COPCs and final COPCs.

For direct exposure, the published CTLs provided in Chapter 62-777, FAC were used to identify COPCs. The maximum detected concentration for each COI was compared to the "target level" to determine the COPCs. The list of COIs was also screened to eliminate common laboratory contaminants, to eliminate samples of poor quality or which provided spurious results, and on the basis of low frequency of detection (less than 5 percent). Also, contaminants whose maximum concentration was less than the background screening value (BSV) (or under certain conditions, contaminants whose maximum concentration was within the background range) were screened out. The BSVs for surface and subsurface soil that were developed for NAVSTA Mayport are presented in Section 2.4 of this report.

For leachability, the maximum concentration for each COI was compared to the leachability table value in Chapter 62-777, FAC. The list of COIs was also screened to eliminate common laboratory contaminants, to eliminate samples of poor quality or which provided spurious results, and on the basis of low frequency of detection (less than 5 percent). Also, contaminants whose maximum concentration was less than the BSV (or under certain conditions, contaminants whose maximum concentration was within the background range) were screened out. If the maximum concentration exceeded the leachability CTL, then the contaminant became a COPC.

Groundwater

The COPC selection process for groundwater was performed following a similar process that was used for soil. For groundwater that discharges into surface water, an additional evaluation was performed.

The maximum detected COI concentration was compared to the "target level" to determine the COPCs. The list of COIs was also screened to eliminate common laboratory contaminants, to eliminate samples of poor quality or which provided spurious results, and on the basis of low frequency of detection (less than 5 percent). Also, contaminants whose maximum concentration was less than the BSV (or under certain conditions, contaminants whose maximum concentration was within the background range) were screened out. The BSVs for groundwater and surface water that were developed for NAVSTA Mayport are presented in Section 2.4 of this report.

For contaminants with a primary or secondary standard, the maximum concentration was compared to the GCTL. The list of COIs was also screened to eliminate common laboratory contaminants, to eliminate samples of poor quality or which provided spurious results, and on the basis of low frequency of detection (less than 5 percent). Also, contaminants whose maximum concentration was less than the BSV, or under certain conditions, contaminants whose maximum concentration was within the background range, were screened out. A contaminant with a primary or secondary standard became a COPC if the maximum concentration exceeded the GCTLs listed in Chapter 62-777, FAC.

For groundwater that discharges into surface water, the maximum concentration for each COI was compared to either the Freshwater Surface Water Criteria or the Marine Surface Water Criteria table value in Chapter 62-777, FAC, depending on the groundwater discharge point. The list of initial COIs was also screened to eliminate common laboratory contaminants, to eliminate samples of poor quality or which provided spurious results, and on the basis of low frequency of detection (less than 5 percent). Also, contaminants whose maximum concentration was less than the BSV, or under certain conditions, contaminants whose maximum concentration was within the background range, were screened out. If the maximum concentration exceeded the Freshwater Surface Water Criteria or the Marine Surface Water Criteria CTL, then the contaminant became a COPC.

Selection of Contaminants of Concern

The list of contaminants identified as COPCs may not represent a true picture of the media-specific contaminant concentrations or realistic risk exposure at a site. In order to represent overall contaminant concentration levels and exposures, COCs were developed from the list of COPCs. COCs were

Groundwater - AOC C

Vinyl chloride (VC) and 1,1-dichlorethene (DCE) were the only contaminants in groundwater that exceeded their respective MCS at AOC C. The corrective action for groundwater at AOC C includes approximately 822,000 gallons of contaminated groundwater. Three alternatives were developed for groundwater contamination at AOC C. The alternatives are as follows:

- Groundwater Alternative 1: No Action
- Groundwater Alternative 2: Natural Attenuation, Land Use Controls (LUCs), and Monitoring
- Groundwater Alternative 3: In-Situ Bioremediation, LUCs, and Monitoring

The recommended corrective measure alternative for groundwater at AOC C is Alternative 2. Alternative 2 would implement LUCs to address the limited groundwater contamination at AOC C and prevent the surficial aquifer from being used as a potable water source. Monitoring would assess groundwater quality on an ongoing basis and provide data to verify if the contaminant concentrations in groundwater are decreasing. This alternative would rely on natural attenuation processes in addressing the contaminated groundwater. Natural attenuation has been successful at many sites to address limited groundwater contamination. A more aggressive treatment process is not required because the surficial aquifer is not currently used as a potable water source and impact to the ecological receptors is minimal.

As there are relatively low concentrations of COCs [maximum detected concentrations of 2.2 and 14 micrograms per liter (μ g/L) for VC and 1,1-DCE, respectively] in the groundwater, LUCs with monitoring would provide adequate and cost-effective protection of human health and the environment. The MCSs for VC and 1,1-DCE are 1.0 μ g/L and 7 μ g/L, respectively. Monitoring of LUCs would ensure the surficial aquifer is not used as a potable water source or for residential use (e.g., irrigation). Monitoring the groundwater would verify if any potential danger to the environment or human health was present. The estimated net present worth (NPW) of the total project cost for Alternative 2 over a 30-year timeframe is \$263,000, which includes \$10,000 for each 5-year review.

The NAVSTA Mayport Partnering Team concurred that implementing LUCs with monitoring would be the most reasonable alternative to address groundwater contamination at AOC C. This decision was made based upon the fact that there is no known source for the site COCs and the site groundwater is not used as a drinking water source. VC and 1,1-DCE were each detected in one site monitoring well at low concentrations that slightly exceeded their respective MCS. Confirmation samples collected during the CMS indicated that COC concentrations had decreased significantly since the RFI sampling event (5-year span). As a result, it was determined that monitored natural attenuation would likely address groundwater contamination at AOC C in a cost effective manner that is protective of both human health and the environment.

2.0 DESCRIPTION OF CURRENT SITE CONDITIONS AND SUMMARY OF SITE-SPECIFIC INVESTIGATIONS

A detailed description of the physical characteristics of NAVSTA Mayport is provided in the NAVSTA Mayport GIR (ABB-ES, 1995a). Information including topography, demography, climate, soil types, and regional geology and hydrogeology has been presented in the GIR and will not be repeated in this report. The following discussion is a summary of geologic and hydrologic data collected at AOC C from current and past investigations dating from 1993 through 2000.

2.1 SITE DESCRIPTION AND BACKGROUND

AOC C is located in the southeastern portion of the NAVSTA Mayport Turning Basin. Figure 2-1 is a site map of AOC C. An investigation conducted in the vicinity of the Building 191 PCE release reported the presence of chlorinated compounds in the groundwater near Building 191 along with vinyl chloride downgradient of Building 191 at Echo Pier. It was presumed that the detections on Echo Pier were related to the contaminants detected near Building 191. This led to the formation of AOC C as a formal investigative unit. It was determined after the RFI that there was no correlation between the detections at Building 191 and Echo Pier. As a result, the NAVSTA Mayport Partnering Team revised the boundaries of AOC C to include only Building 191 and a small section of parking lot along its northern side, the original AOC C boundary (October Partnering Minutes, 2005).

Storage areas at Building 191 are used to support ship and shore services at NAVSTA Mayport. The outlying buildings are used to store warehouse hazardous materials such as solvents and compressed gasses. These buildings or structures include one Quonset building (Building 2023), an open-sided covered structure with concrete floor (Building 191-A), and an aluminum-constructed structure (Building 191-C). Quonset Building 264, which was previously located on site, has been demolished. A site location map is provided on Figure 2-1 and a site plan on Figure 2-2.

Potential sources of contamination include petroleum product line failures and historical releases of chemicals (i.e., solvents, etc.) stored on site.

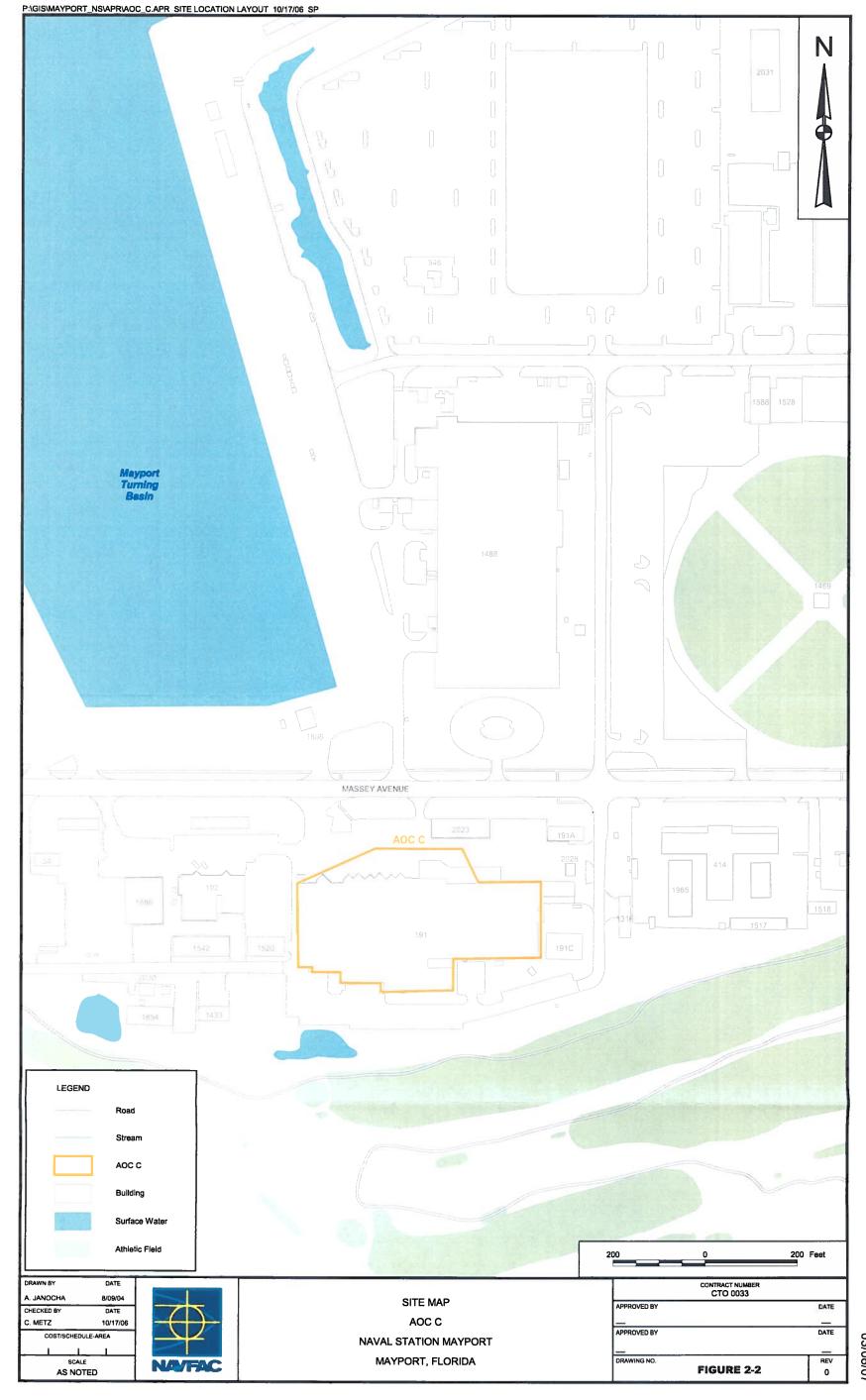
Echo Pier is located in the southeastern section of the Mayport Turning Basin adjacent and west of SERMC and north of Building 191. Ships berthed at Echo Pier undergo mechanical, electrical, and minor structural maintenance and repair. Potential sources of contamination at Echo Pier include petroleum product line failures.

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2.2 SITE GEOLOGY AND HYDROGEOLOGY

Geology data at AOC C were not obtained during this field investigation; therefore, data discussed in this section relies on information collected during previous field investigations at AOC C and is primarily limited to the Building 191 area. Site-specific geological information is available to 50 feet below ground surface (bgs), which comprises the surficial aquifer. AOC C geological features below the surficial aquifer are likely similar to regional geological features summarized in Section 2.1 and discussed thoroughly in Section 1.4.5 of the Mayport GIR (ABB-ES, 1995a).

Lithologic sampling and borehole geophysical surveys were conducted at Building 191 by ICON during an investigation performed under NELP. The results of the investigation are presented in the Final Contamination Assessment Report, Additional Sampling Using Innovative Technology/Methodology at the SWMU 15 and Building 191 Area (ICON, 1998). Harding Lawson & Associates (HLA) also summarized the results and interpretations of the ICON study in the report Technical Memorandum, Groundwater Assessment of Tetrachloroethene Release Near Building 191, Naval Station Mayport (HLA, 1999). ICON identified three aquifer zones in the surficial aquifer unit beneath Building 191. The three zones are summarized as follows:

- The shallow or water table zone of the surficial aquifer (Zone A) consists of the interval from the water table, which occurred from approximately 3 to 5 feet bgs to a depth of approximately 33 feet bgs, where a 3-foot thick gray silty clay layer was usually encountered. This clay layer was not apparent in the northern part of the site near Massey Avenue. The shallow aquifer consists of well-graded (poorly sorted) quartz sand with some shell fragments. At a depth of approximately 24 feet bgs, a 3-inch thick limestone seam was sporadically encountered.
- The intermediate zone of the surficial aquifer (Zone B) consists of a permeable zone of gray silty sand between 36 to 39 feet bgs. A greenish-gray sandy clay layer approximately 4-foot thick is encountered at approximately 39 feet bgs forming the lower boundary of Zone B. This aquitard was discontinuous or missing in the southern portion of Building 191.
- The deep zone of the surficial aquifer (Zone C) consists of a permeable dark gray silty sand with some shell fragments from approximately 43 to 47 feet bgs. At 47 feet bgs, a 2-foot thick dark-gray silty clay was encountered as the lower boundary of Zone C. This aquitard appears to be continuous across the Building 191 area and likely represents the top of the Hawthorn Formation.

The ICON and HLA reports provide more extensive geologic and hydrogeologic data for AOC C and were provided in the Appendix of the RFI Report for AOC C (TtNUS, 2003).

2.3 SITE HYDROLOGY

Water levels collected during the confirmation assessment phase of the field investigation indicated that groundwater flow in the shallow zone varies from the groundwater flow in intermediate and deep zones of the surficial aquifer. Groundwater flow in the shallow zone of the surficial aquifer is toward the southwest at Building 191 and west toward the Mayport Turning Basin at Building 1488 and Echo Pier. Groundwater flow in the intermediate and deep zones of the surficial aquifer is generally northwest toward the Mayport Turning Basin with some localized variation. Provide a reference of where this determination was made.

Review of groundwater elevations in the nested well set suggests there is limited communication between the shallow zone and the intermediate and deep zones of the surficial aquifer. This finding is consistent with the variations in groundwater flow shown on the shallow, intermediate, and deep potentiometric surface maps, shown on historical Figures 2-1, 2-2, and 2-3, respectively (see Appendix A) (TtNUS, 2003). The intermediate and deep zones have greater hydrogeologic communication.

An average horizontal hydraulic gradient of 0.033, 0.071, and 0.061 foot per foot was calculated for the shallow, intermediate, and deep zones of the surficial aquifer, respectively. The average was calculated using synoptic water level data obtained during a February 2001 water level data collection event. ICON determined vertical hydraulic gradients during the 1997 field effort. An upward vertical gradient existing in the northeast portion of the Building 191 area flattens and is negligible at the northwest corner of the site. A downward vertical hydraulic gradient of 0.032 was observed to the west and south of Building 191.

Aquifer testing was performed by ABB-ES during the 1995 groundwater assessment at Building 191 and by HLA and ICON during the 1997 expanded groundwater assessment at Building 191. Hydraulic conductivity values ranging from approximately 1.4 feet per day (ft/day) (MPT-TC-MW06S) to 20.5 ft/day (MPT-TC-MW03S), with an average hydraulic conductivity value of 11.3 ft/day, were obtained during the 1995 field event (ABB-ES, 1996a). Hydraulic conductivity values ranging from approximately 1.43 ft/day (MPT-TC-DPW09I) to 106.7 ft/day (MPT-TC-MW08S), with an average hydraulic conductivity value of approximately 38 ft/day, were obtained during the 1997 field event (HLA, 1999). There have not been any in-situ hydraulic conductivity measurements performed near Echo Pier or SERMC.

An approximation of horizontal flow velocity of groundwater in the water table zone of the surficial aquifer at AOC C is based on the potentiometric surface (hydraulic gradient) of the water table, estimate of hydraulic conductivities at monitoring well locations, and an estimate of porosity of the saturated subsurface soil. The horizontal linear velocities were calculated from a modified form of Darcy's equation and represent the ratio of linear travel distance to travel time between two points (TtNUS, 2003). The

horizontal linear velocity is expressed as V_D/N_e where V_D is the Darcy velocity ($V_D = KI$, K = radial hydraulic conductivity, and I = hydraulic gradient) and N_e is the effective porosity of the saturated geologic stratum. An effective porosity of 0.35 was used in the calculations [see Subsection 3.2.3, Physical Characteristics of Soil, in the NAVSTA Mayport GIR (ABB-ES, 1995a)].

Based on the values for horizontal linear velocity and assuming no dilution, dispersion, or retardation, a contaminant in the water table zone of the surficial aquifer may travel at rates of 16 to 235 feet per year (ft/yr) and average approximately 130 ft/yr near Building 191 (ABB-ES, 1996a). These rates may be different for areas near SERMC and Echo Pier.

2.3.1 AOC C Groundwater Model

A three-dimensional groundwater flow model was created for AOC C following completion of the RFI. It was created to be a smaller-scale, higher-resolution local model based on the regional-scale United States Geological Survey (USGS) model (TtNUS, 2003). The RFI made reference that the groundwater model would be created and added as an addendum. After review of the model by the NAVSTA Mayport Partnering Team, they concluded that it did not provide enough additional and conclusive groundwater flow data to warrant being added to the RFI as an addendum. The groundwater flow model is included in Appendix A, Historical Documents, of this CMS.

2.3.2 Tidal Influence

A tidal influence survey was not completed for the AOC C RFI. Tidal influence surveys have been performed for the Groups I, II, and III RFIs. Although the surveys provide insight into tidal influence at NAVSTA Mayport along the St. Johns River, the extent of influence may be different in areas surrounding the Mayport Turning Basin due to construction materials (i.e., sheet piling, concrete, etc.) to depths exceeding 40 feet bgs. A smaller scale tidal influence survey was completed for a contamination assessment performed at SERMC (TtNUS, 2003). Two wells, MAY-1490-1 (11 feet bgs) and MAY-1490-5 (22.96 feet bgs), were monitored at 15-minute intervals over a 24-hour period. Results of the survey indicated a maximum fluctuation of 0.23 feet. The report concluded that the minor fluctuations did not appear to significantly affect groundwater flow direction.

2.4 BACKGROUND SCREENING VALUES FOR NAVSTA MAYPORT

BSVs were originally calculated and presented in the RCRA GIR (ABB-ES, 1995a). The calculation was based on analytical results for samples from each medium of concern including groundwater, surface soil, subsurface soil, sediment, and surface water. During review of the background data, it was determined

that certain procedures used during the original background calculations were not consistent with current regulatory guidelines, and apparent spurious or problematic results were present in the data used to perform the calculations. A recalculation of the BSVs was therefore performed primarily to conform with newer regulatory guidance that recommends how concentrations below analytical detection limit are used in the mathematical treatment of the data (TtNUS, 2000).

It was noted during review of the background data sets that many of the results for each medium sampled were below the detection limits of the laboratory methods used. Consequently, the use of one-half the detection limit for results below analytical detection limit in the recalculation methodology may result in an unnatural lowering of the mean concentration. Therefore, the BSV was compared with the maximum background concentration in each medium's data set. If the BSV (i.e., 2 times the mean of the background data set) for a contaminant was less than the maximum concentration for that contaminant, then the BSV for that contaminant was bolded and footnoted in Tables 2-1 through 2-5. For these contaminants, if a contaminant was detected in a site medium at a concentration between the BSV and the maximum detected concentration, then these contaminants received additional evaluation on a case by case basis to determine if the site detection represents the upper range of background or a site release. Tables 2-1 through 2-5 present the recalculated BSVs for each medium at NAVSTA Mayport.

2.5 SUMMARY OF PREVIOUS INVESTIGATIONS

This section summarizes previous investigations applicable to AOC C at NAVSTA Mayport. The reports listed below (in chronological order) were written to document the results of the previous investigations at AOC C. A copy of these reports was provided in the appendix of the RFI for AOC C.

- The Contamination Assessment Report for Naval Station Mayport Building 191 [Environmental Science and Engineering, Inc. (ESE), 1994].
- The Solid Waste Management Unit Assessment Report for Tetrachloroethene Release near Building 191, Naval Station Mayport (ABB-ES, 1996a).
- Final Contamination Assessment Report, Additional Assessment Using Innovative Technology/Methodology at the SWMU 15 and Building 191 Area, NAVSTA Mayport (ICON, 1998).

TABLE 2-1 STATISTICS AND BACKGROUND SCREENING VALUES – SURFACE SOIL AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

Chemicai	ai De		•	Range of Reporting Limits ²	Range of Detected Concentrations ²	Arithmetic Mean ³	BSV ⁴						
norganics (mg/kg)													
Antimony	0	1	6	5.2 6	5	ND ⁵	ND 5						
Arsenic	0	1	6	0.76 - 2.6	5	ND ⁵	ND 5						
Barium	6	1	6	6	0.76 5	2.75	5.50						
Beryllium	1	1	6	0.06 0.07	0.09	0.05	0.09						
Cadmium	1	1	6	0.83 0.96	1 1	0.5	1.1						
Chromium	6	1	6	6	0.68 2.5	1.3	2.6						
Cobait	0	1	6	0.47 0.55	5	ND ⁵	ND ⁵						
Copper	1	1	6	0.35 0.41	2.1	0.35	0.69 ⁷						
Cyanide	0	1	6	0.16 0.18	5	ND ⁵	ND ⁵						
Lead	0	1	6	0.25 1.7	5	ND ⁵	ND ⁵						
Mercury	0	1	6	0.03 0.07	5	ND ⁵	ND ⁵						
Nickel	0	1	6	2.6 3	5	ND ⁵	ND ⁵						
Selenium	5	/	6	0.45 0.45	0.47 0.86	0.6	1.2						
Silver	0	1	6	0.51 0.59	5	ND ⁵	ND 5						
Thallium	4	1	6	0.53 0.62	0.77 1.1	0.7	1.4						
Tin	0	1	6	7.3 8.5	5	ND ⁵	ND ⁵						
Vanadium	5	/	6	0.46 0.46	1.2 2.5	1.7	3.4						
Zinc	6	1	6	6	0.35 1.9	1.3	2.7						
Miscellaneous Parameters (mg	/kg)												
Total Organic Carbon	6	1	6	6	1,440 8,030	3,499	6,998 ⁷						

Notes:

- 1 Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected results); duplicates included but not counted.
- 2 Ranges include duplicate and/or resample results, where appropriate.
- 3 The mean includes detected concentrations and one-half the laboratory reporting limit for nondetect results; duplicate samples and resample results were averaged prior to calculation of the mean.
- 4 BSV is twice the arithmetic mean of the data.
- 5 All results were nondetects (ND); mean and BSV not applicable.
- 6 All results were positive detects.
- 7 Bold BSV indicates that value is less than maximum concentration of that chemical.

BSV = Background screening value mg/kg = milligrams per kilogram

TABLE 2-2 STATISTICS AND BACKGROUND SCREENING VALUES - SUBSURFACE SOIL **AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA**

Chemical		eque of etection	•	Range of Reporting Limits ²	Range of Detected Concentrations ²	Arithmetic Mean ³	BSV ⁴
Inorganics (mg/kg)							CONTRACTOR
Antimony	0	1	4	1.1 1.2	5	ND 5	ND ⁵
Arsenic	3	1	4	0.13 0.13	0.33 0.58	0.35	0.70
Barium	4	1	4	_6	1.9 6.8	3.6	7.2
Beryllium	1	1	4	0.07 0.07	0.07	0.04	0.09
Cadmium	0	1	4	0.22 0.23	5	ND ⁵	ND ⁵
Chromium	3	1	4	0.57 0.57	1.4 3	1.4	2.7
Cobalt	1	1	4	0.67 0.72	0.71	0.4	0.8
Copper	2	1	4	0.2 0.9	1.4 2.3	1.0	2.1 7
Cyanide	1	1	4	0.15 0.16	0.58	0.1	0.3 7
Lead	2	1	4	0.58 0.59	0.75 1.9	0.83	1.667
Mercury	3	1	4	0.03 - 0.03	0.03 0.03	0.02	0.05
Nickel	0	1	4	1.3 1.4	5	ND⁵	ND ⁵
Selenium	0	1	4	0.13 0.14	5	ND ⁵	ND ⁵
Silver	0	1	4	0.45 0.49	5	ND ⁵	ND ⁵
Thallium	0	1	4	0.13 0.14	5	ND ⁵	ND ⁵
Tin	4	1	4	6	2.2 4	2.7	5.4
Vanadium	4	1	4	6	0.71 2.5	1.6	3.1
Zinc	4	1	4	6	2 2.9	2.4	4.9

Notes:

- Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected results); duplicates included but not counted.
- Ranges include duplicate and/or resample results, where appropriate. 2
- The mean includes detected concentrations and one-half the laboratory reporting limit for nondetect results; duplicate samples and resample results were averaged prior to calculation of the mean.
- BSV is twice the arithmetic mean of the data.
- All results were nondetects (ND); mean and BSV not applicable.
- All results were positive detects.
- Bold BSV indicates that value is less than maximum concentration of that chemical.

BSV = Background screening value mg/kg = milligrams per kilogram

TABLE 2-3 STATISTICS AND BACKGROUND SCREENING VALUES – GROUNDWATER AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

Chemical		of	ncy ion ¹	Re	nge port	ting		Rang Detec		Arithmetic Mean ³	BSV ⁴
inorganics (µg/L)					ē4i)					ar Ayen all a A	
Arsenic	5	7	8	0.6		6	0.6		6	2.6	5.3 ⁵
Antimony	0	1	8	2.2		50		6		ND ⁶	ND ⁶
Barium	5	1	8	1.2		3.3	6.4		75.5	18.9	37.8 ⁵
Beryllium	0	1	8	0.18		0.3		6		ND ⁸	ND ⁶
Cadmium	0	1	8	1		3		6		ND ⁶	ND ⁶
Calcium	8	1	8		7		65,000		251,000	113,063	226,125 ⁵
Chromium	0	7	8	2		2.6		⁶		ND ⁸	ND ⁶
Cobalt	0	1	8	2.7		3.1		6		ND ⁶	ND ⁶
Copper	0	1	8	0.9		12.7		_ ⁶		ND ⁸	ND ⁶
Cyanide	1	1	8	0.81		2.7		0.9	5	1	2
Iron	6	1	8	68.2		78.6	15.4		660	247	494 ⁵
Lead	1	1	8	0.6		6		1.5	5	1	2
Magnesium	6	1	8	18,800	-	19,700	28,60		419,000	92,196	184,393 ⁵
Manganese	6	1	8	20.1		23.6	7.1		228	70	141 ⁵
Mercury	2	1	8	0.08		0.5	0.08		0.1	0.08	0.16
Nickel	0	1	8	5.9		7.3		6		ND ⁶	ND ⁶
Selenium	0	1	6	0.6		13.2		6		ND ⁸	ND ⁶
Silver	0	1	8	2.1		2.3		6		ND ⁶	ND ⁶
Sodium	6	1	8	31,500		39,500	9,300		3,310,000	762,294	1,524,588
Thallium	0	1	8	0.6	_	6		⁶		ND ⁶	ND ⁶
Tin	0	1	8	8		9.4		6		ND ⁶	ND ⁶
Vanadium	6	1	8	1.5		1.7	2.3	-	5.8	3	6
Zinc	1	1	8	1.82		8.8		4.3	3	2.9	5.8
Miscellaneous Parameters (mg	/L)	J. J			, S. 1 (4)						
Ammonia, as nitrogen	3	1	3		7		0.7		1.3	1.0	2.1
Chloride	6	1	6		7		15	-	6,600	1,142	2,284 ⁵
Sulfate	6	1	6		7		36.4		1,230	257	514
Total dissolved solids	6	1	6		7		417		8,150	1,881	3,762

Notes:

- 1 Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected results); duplicates included but not counted.
- 2 Ranges include duplicate and/or resample results, where appropriate.
- 3 The mean includes detected concentrations and one-half the laboratory reporting limit for nondetect results; duplicate samples and resample results were averaged prior to calculation of the mean.
- 4 BSV is twice the arithmetic mean of the data.
- 5 Bold BSV indicates that value is less than maximum concentration of that chemical.
- 6 All results were nondetects (ND); mean and BSV not applicable.
- 7 All results were positive detects.

BSV = Background screening value

mg/L = milligrams per liter

µg/L = micrograms per liter

TABLE 2-4 STATISTICS AND BACKGROUND SCREENING VALUES - SEDIMENT **AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA**

Chemical	Frequency Range of Range of Reporting Detected Concentrations 2		Arithmetic Mean ³	BSV ⁴								
norganics (mg/kg)												
Antimony	0	1	8	0.94 18.2		5	ND ⁵	ND ⁵				
Arsenic	4	1	8	0.01 0.21	0.68	6.6	1.2	2.5				
Barium	8	1	8	0 0	3.6	16.1	7.2	14.3 ⁶				
Beryllium	2	1	8	0.045 0.59	0.1	0.47	0.1	0.2 6				
Cadmium	1	/	8	0.44 1.3		0.82	0.5	0.9				
Chromium	8	/	8	0 0	1.3	28.1	7.3	14.7 6				
Cobalt	1	/	8	0.56 6.4		2.4	1.0	2.0 ⁶				
Copper	7	1	8	0.43 0.43	0.88	- 7.5	2.5	5.0 ⁶				
Cyanide	0	1	5	0.07 0.22		5	ND⁵	ND ⁵				
Lead	6	1	8	0.2 1.2	1.5	10	3.4	6.8 ⁶				
Mercury	3	/	8	0.04 0.24	0.22	1.1	0.2	0.3 6				
Nickel	3	1	8	2 3.6	5.1	7.1	3.1	6.2 8				
Selenium	6	1	8	0.56 1.1	0.32	0.81	0.5	1.1				
Silver	0	1	8	0.6 1.1		5	ND⁵	ND ⁵				
Thallium	1	1	8	0.39 0.74		0.88	0.3	0.7 6				
Tin	1	1	8	5 94.8		12.3	17.9	35.8				
Vanadium	8	1	8	7	1.6	28.4	7.1	14.3 ⁶				
Zinc	8	1	8	7	2.1	34.3	12.1	24.2 ⁶				
Miscellaneous Parameters (mo	y/kg)	eff.;	11.45		18 m 7							
Total organic carbon	5	1	5	₇	5,160	20,400	9.364	18,728				

Notes:

- Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected results); duplicates included but not counted.
- Ranges include duplicate and/or resample results, where appropriate.

 The mean includes detected concentrations and one-half the laboratory reporting limit for nondetect results; duplicate samples and resample results were averaged prior to calculation of the mean.
- BSV is twice the arithmetic mean of the data.
- All results were ND; mean and BSV screening value not applicable.
- Bold BSV Screen result indicates that value is less than maximum concentration of that chemical.
- All results were positive detects.

BSV = Background screening value mg/kg = milligrams per kilogram

TABLE 2-5 STATISTICS AND BACKGROUND SCREENING VALUES – SURFACE WATER AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

Chemical	Frequence C Detect	of		Re	ange port	ing	Range of Detected Concentrations ²			Arithmetic Mean ³	BSV ⁴
Inorganics (μg/L)					144				100	AND SELLIN	
Antimony	1	/	8	3.1		40		57.5	5	17.5	35 ⁶
Arsenic	5	/	8	0.9		6.9	0.86		8.1	2.8	5.6 ⁵
Barium	8	/	8		6		6.8		15.4	11.4	22.9
Beryllium	0	/	8	0.1	-	0.27		7		ND ⁷	ND 7
Cadmium	1	1	8	1.6		4		2.4		1.6	3.1
Calcium	4	7	4	*	⁶	*	71,100	_	168,000	141,088	282,175
Chromium	1	/	8	1.9	-	2.4	1	4		1.3	2.6 5
Cobalt	2	/	8	2.3		5.1	5.6		9.7	3.2	6.4 ⁶
Copper	3	/	8	1.4	-	29.5	2.4		37.2	7.2	14.5 ⁵
Cyanide	2	/	8	1.8		3	0.92		3.0	1.5	3.0
Iron	3	/	4	187		187	85.7		435	193	386 ⁵
Lead	2	/	4	0.78		2.6	0.91		1.5	1.0	2.1
Magnesium	4	7	4		6		54,000		490,000	335,575	671,150
Manganese	4	/	4		6		10.4		98.7	41.7	83.5 ⁵
Mercury	0	/	8	0.09		0.16		7		ND ⁷	ND 7
Nickel	1	1	8	7		19.8	13		13	6.3	12.6 ⁵
Selenium	3	/	8	1.1		10.6	1.8		13.7	4.3	8.5 ⁵
Silver	0	/	8	2.1		2.4		⁷		ND 7	ND 7
Sodium	1	7	4	55.6		55.6	31	36,0	00	95,771	191,542 ⁵
Thallium	2	/	5	1.4		1.4	1.8		73.7	10.0	19.9 ⁵
Tin	1	7	8	9.4		208		776		108	216 ⁵
Vanadium	6	1	8	2.2		2.7	3.4		5.2	3.2	6.4
Zinc	1	/	8	1.6		23.5	1	3.2		4.4	8.8
Miscellaneous Parameters (mg/L			7. 18	A STATE	A P			97.			1045.70
Chloride	5	/	5		6		710		11,500	6,075.0	12,150
Sulfate	5	/	5		6		130		1,320	839	1,679
Total dissolved solids	4	/	4		⁶		1,550		18,600	11,263	22,525
Total organic carbon	4	7	4		6		10.8		21.6	15	29

Notes:

- 1 Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected results); duplicates included but not counted.
- 2 Ranges include duplicate and/or resample results, where appropriate.
- 3 The mean includes detected concentrations and one-half the laboratory reporting limit for nondetect results; duplicate samples and resample results were averaged prior to calculation of the mean.
- 4 BSV is twice the arithmetic mean of the data.
- 5 Bold BSV indicates that value is less than maximum concentration of that chemical.
- 6 All results were positive detects.
- 7 All results were nondetects (ND); mean and BSV not applicable.

BSV = Background screening value

μg/L = micrograms per liter

mg/L = milligrams per liter

- Technical Memorandum, Groundwater Assessment of Tetrachloroethene Release near Building 191,
 Naval Station Mayport (HLA, 1999).
- The Confirmation Assessment Letter Report for AOC C, Naval Station Mayport (TtNUS, 1999a).
- The Resource Conservation and Recovery Act (RCRA) Facility Investigation for Area of Concern C, Naval Station Mayport (TtNUS, 2003).

2.5.1 Petroleum Investigation at Building 191

A Contamination Assessment Report (CAR) was prepared (ESE, 1994) to evaluate the potential release(s) of diesel fuel from underground fuel lines extending from a 300-gallon aboveground storage tank (AST) located on the south side of Building 191. The multimedia assessment consisted of surface and subsurface soil sampling, installing three piezometers and four monitoring wells, measuring water levels to determine groundwater flow direction, and collecting groundwater samples for chemical analysis. Contaminated soil was removed from the site and the groundwater analytical results indicated that the release of petroleum product did not result in groundwater contamination. Although contamination related to the release of petroleum product was not evident, PCE was detected in a groundwater sample collected from the background monitoring well MPT-TC-MW04S, located on the northern side of Building 191. The presence of PCE and trichloroethene (TCE) prompted a RCRA investigation at Building 191.

2.5.2 ABB-ES Multimedia Investigation

ABB-ES conducted a multimedia assessment of AOC C at NAVSTA Mayport after PCE was discovered in the groundwater during a petroleum program investigation at Building 191. Results of this assessment are available in the Solid Waste Management Unit Assessment Report for Tetrachloroethene Release near Building 191 (ABB-ES, 1996a) and are summarized below.

Arsenic and benzo(a)pyrene were the only constituents detected in the surface soil in excess of FDEP residential direct exposure SCTLs and SCTLs for leaching to groundwater. However, neither was above the Florida industrial SCTLs. No constituents were detected in the subsurface soil samples in excess of FDEP residential direct exposure SCTLs or SCTLs for leaching to groundwater. Constituents detected in the groundwater in excess of FDEP GCTLs include arsenic, bromodichloromethane, chloroform, dibromochloromethane, manganese, PCE, and TCE.

Based on the presence of PCE and/or TCE, ABB-ES recommended designating the area as an AOC, performing an assessment to determine the nature and extent of PCE in groundwater, and performing a human health risk assessment.

2.5.3 HLA Groundwater Investigation

HLA subsequently conducted a groundwater assessment of AOC C at NAVSTA Mayport in 1997 and 1998. The purpose of the investigation was to delineate the horizontal and vertical extent of volatile organic compounds (VOCs) detected in the groundwater samples during the ABB-ES investigation.

Lithologic sampling and borehole geophysical surveys performed at the site identified that the surficial aquifer beneath Building 191 has three aquifer zones. Groundwater samples collected from the shallow water table zone contained concentrations of chloroform, dibromochloromethane, PCE, TCE, VC, arsenic, iron and manganese that exceeded Florida GCTLs. Groundwater samples collected from the intermediate zone contained methylene chloride, 1,1-dichloroethane, cis-1,2-DCE, TCE, and VC at concentrations that were equal to or less than Florida GCTLs. Groundwater samples collected from the deep zone contained methylene chloride, PCE, and TCE at concentrations exceeding Florida GCTLs.

Recommendations in the Technical Memorandum (HLA, 1999) included additional groundwater sampling and evaluation of the present well locations and well screen placements to determine if the location and extent of the halogenated VOC plume was fully delineated. The Technical Memorandum concluded the source of the VC detected in groundwater samples along Echo Pier had not been determined.

2.5.4 RFI INVESTIGATION

The RFI for AOC C was conducted by TtNUS between 1999 and 2000. Field activities consisted of measuring the locations and elevations of existing monitoring wells, the collection of surface and subsurface soil samples, the collection of surface water and sediment samples, the installation of groundwater monitoring wells, and collection of groundwater samples. Information regarding the investigation methods and sampling procedures are provided in the RFI Work Plan (TtNUS, 1999b). A total of three surface soil, four subsurface soil, one surface water, one sediment, and 46 groundwater samples were collected at AOC C during the RFI. Twenty-seven previously sampled monitoring wells were resampled for thallium and added to the RFI data set. The wells were re-sampled because the initial laboratory analytical method detection limit for thallium exceeded the GCTL for thallium. RFI Figure 4-1 (Appendix A) presents the soil, surface water, and sediment sample locations used in the RFI. RFI Figure 4-2 (Appendix A) presents the monitoring well locations at AOC C used in the RFI.

2.5.4.1 RFI Conclusions for AOC C

The following conclusions were presented in the AOC C RFI:

- Two semivolatile organic compounds (SVOCs) [benzo(a)pyrene and dibenz(a,h)anthracene] were
 detected in the surface soil samples collected near Building 191 at concentrations exceeding their
 respective FDEP SCTLs for a residential and industrial direct exposure scenario. No FDEP SCTLs
 for leaching to groundwater criteria were exceeded. Both constituents were detected in sample
 MPT-55-SS06-01, which was collected from a stormwater conveyance.
- One inorganic (total cyanide) was detected in the surface water sample collected near Building 191 at
 a concentration exceeding the FDEP SWCTL for surface water as provided in FDEP Chapter 62-302,
 FAC. However, the FDEP SWCTL is based on free cyanide, which is bioavailable. It is unknown if
 free cyanide is present at levels above regulatory criteria. Cyanide contamination has not previously
 been associated with any multimedia samples collected at Building 191.
- Five VOCs (1,1-DCE, 1,2-DCE, PCE, TCE, and VC) at Building 191, five SVOCs (2-methylnaphthalene, acenaphthene, carbazole, dibenz(a,h)anthracene, and naphthalene) at Echo Pier, and five inorganics (aluminum, iron, manganese, sodium, and thallium) at Building 191, SERMC, and Echo Pier were detected in the groundwater samples at concentrations exceeding FDEP GCTLs.

2.5.4.2 Human Health Risk Assessment Conclusions for AOC C

The following conclusions were presented in the AOC C Human Health Risk Assessment:

- The excess lifetime cancer risk (ELCR) estimate for the construction worker (2.5×10^{-7}) does not exceed the USEPA target risk range (1.0×10^{-4} to 1.0×10^{-6}) or the State of Florida cancer risk benchmark (1.0×10^{-6}).
- The ELCR estimates for the base worker (8.6 x 10⁻⁶) and trespasser (7.1 x 10⁻⁶) exceed the conservative end of the USEPA target risk range (1.0 x 10⁻⁶). Cancer risk from exposure to benzo(a)pyrene in surface soil exceeds 1.0 x 10⁻⁶ for both receptors.
- The ELCR estimate for the hypothetical future resident (1.4 x 10⁻⁴) exceeds the USEPA target risk range (1.0 x 10⁻⁴ to 1.0 x 10⁻⁶). Cancer risk from exposure to benzo(a)pyrene (equivalent), Aroclor-1260, and arsenic in surface soil and 1-1-DCE, PCE, VC, carbazole, and aldrin in

groundwater exceeds 1.0 x 10⁻⁶. The exposure point concentrations for both PCE and VC are below their respective USEPA Maximum Contaminant Levels (MCLs) for drinking water.

 Non-cancer Hazard Indices (HIs) developed for the base worker, the construction worker, the adult trespasser, and the adolescent trespasser are equal to or less than one, indicating that adverse non-carcinogenic effects are not anticipated under the conditions considered in the risk assessment.
 The HIs developed for the hypothetical future resident adult and child exceed 1.0. HIs developed for individual COPCs and target organs do not exceed 1.0.

2.5.4.3 Ecological Risk Assessment Conclusions for AOC C

- The screening-level Ecological Risk Assessment (ERA) concluded that no detected chemical had a
 Hazard Quotient (HQ) greater than 1.0 in surface water or sediment, which was the only media
 determined to be a potential risk to ecological receptors at AOC C.
- Some inorganics and VOCs were selected as COPCs because no USEPA Region IV screening levels were available. However, a Step 3A analysis suggested that these chemicals were not present in quantities that could result in unacceptable risks.
- The industrialized nature of AOC C does not facilitate widespread ecological habitation. No further ERA or ecological risk management appears to be warranted for AOC C.

2.5.4.4 RFI Recommendations

The RFI recommended that additional delineation be performed to identify the extent of contamination present in the surface soil surrounding MPT-55-SS06-01. In addition, it recommended that a surface water sample should be collected from the stormwater retention pond and analyzed for free cyanide. Once completed, a letter report was to be issued presenting the results and recommendations and incorporated into the RFI Report as an appendix.

Furthermore, TtNUS recommended a CMS be conducted to evaluate remedial alternatives and recommend a remedial action to mitigate groundwater contamination at AOC C. At a minimum, the CMS should evaluate the effectiveness of natural attenuation of COPCs in groundwater and the implementation of LUCs.

2.5.5 Post RFI/CMS Sampling

Reevaluation of the media COPCs in the CMS was based on data that were between 5 and 8 years old. The NAVSTA Mayport Partnering Team decided to collect confirmation samples at locations with COCs exceedances and incorporate the updated concentrations into the CMS. In January 2005, 10 RFI confirmation samples were collected at AOC C and included in the CMS data set. A list of environmental samples collected at AOC C and the analyses conducted on those samples is presented in Table 2-6.

TABLE 2-6 RFI COMFIRMATION SAMPLES AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

Groundwater	Sample Date	COC(s)
MPT-TC-DPW02D	1/5/2005	1,2-DCE(total), 1,1-DCE, TCE, VC
MPT-TC-DPW05I	1/5/2005	1,2-DCE(total), 1,1-DCE, TCE, VC
MPT-TC-DPW07D	1/5/2005	1,1-DCE
MPT-TC-DPW09I	1/5/2005	1,2-DCE(total), 1,1-DCE, TCE, VC
MPT-EP-DPW02I	1/5/2005	VC
MPT-17-MW03S	1/5/2005	Ammonia
MPT-AC-DPW01D	1/5/2005	Aluminum
Surface Water		
Retention pond	1/5/2005	Cyanide
Surface Soil		
TSC00101	1/5/2005	Arsenic, Barium, Aroclor-1260, BaP, BbF, BaA
TSC00401	1/5/2005	Aroclor-1260, Heptachlor epoxide

Notes:

BaA = Benzo(a)anthracene BaP = Benzo(a)pyrene BbF = Benzo(b)fluoranthene DCE = Dichloroethene TCE = Trichlorethene VC = Vinyl Chloride

3.0 CORRECTIVE ACTION OBJECTIVES

The FDEP promulgated new cleanup criteria on April 17, 2005. In order to correctly establish CAOs, the CMS data set needed to be reevaluated based on the new FDEP criteria to determine current site COCs. Once the site COCs and corresponding MCSs are defined, the media(s) of concern will be known and the volumes of contaminated media can be calculated, and the CAOs can then be identified for the site.

3.1 CMS DATA SET

The results of environmental samples collected during the RFI conducted in 1999 and 2000 were used to evaluate COPCs and to select COCs in this CMS. Table 3-1 provides a list of all samples for each medium that was used in the CMS. Tables listing the complete analytical results of all sampling events per medium are included in Appendix B.

3.2 CHEMICALS OF CONCERN – HUMAN HEALTH

The determination of COCs for subsurface soil and groundwater at AOC C involved the following three-step process as described in Section 1.5.3:

- 1. Determination of COIs.
- 2. Identification of the COPCs.
- 3. Selection of COCs.

COIs and COPCs were determined in the RFI. However, since the RFI was issued, FDEP promulgated new subsurface soil and groundwater CTLs, effective as of April 17, 2005. In the following sections, COIs and COPCs for AOC C are reevaluated based on the new CTLs to select the COCs to be carried forward in the CMS corrective action selection process.

3.2.1 COIs - Human Health

The COIs include any contaminant detected at least once in validated analytical results for environmental samples in any medium collected at AOC C. The locations of soil and surface water/groundwater sampling locations at AOC C are shown on Figure 3-1 and Figure 3-2, respectively. The revised list of COIs is provided in Table 3-2.

TABLE 3-1 SAMPLE IDENTIFICATION AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

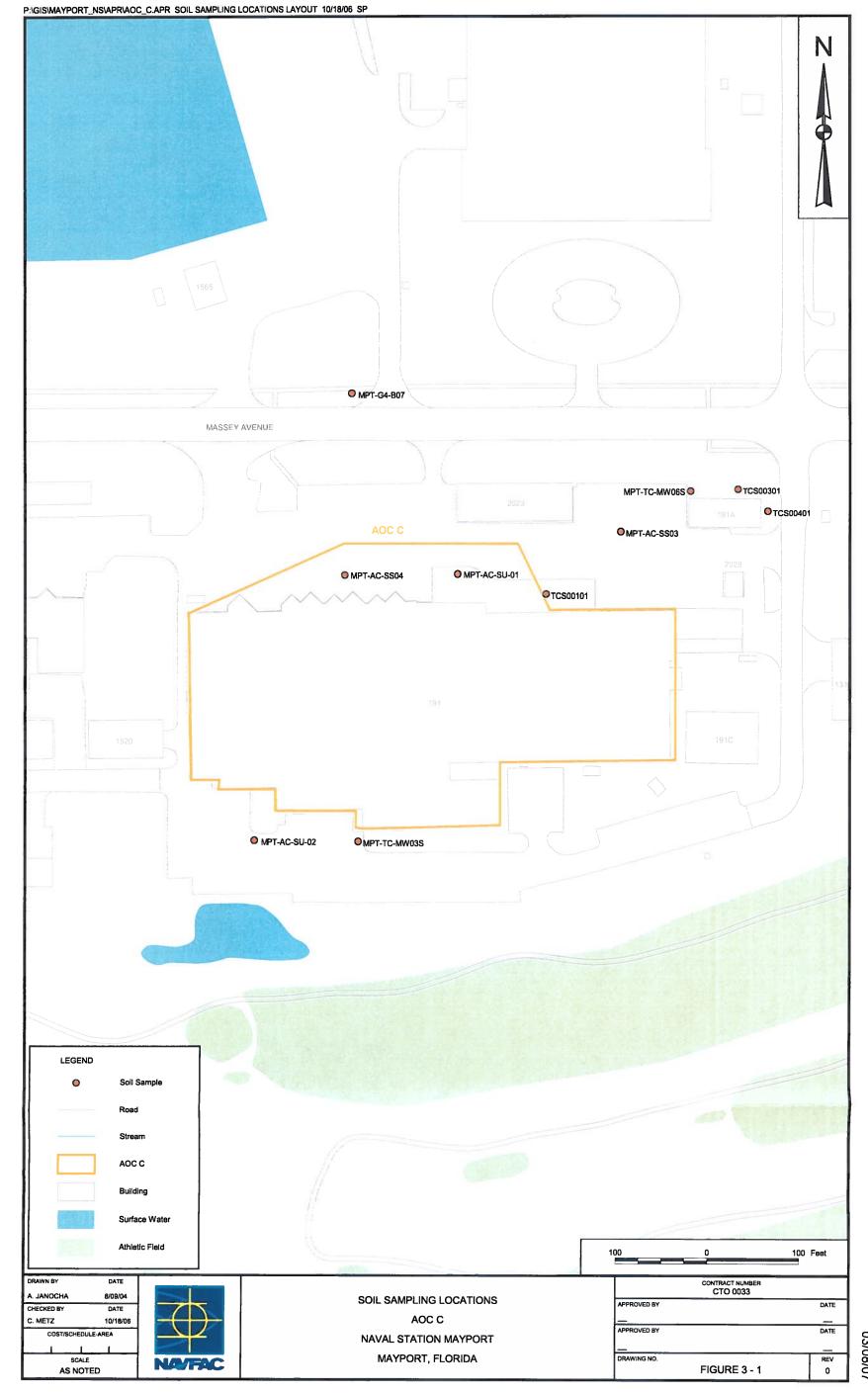
Sample Location	Sample ID	Sample Date	Volatile Organics	Semivolatile Organics	Pesticides/PCBs	Herbicides	Inorganics	Miscellaneous
MDT AC OUL OF		SUBSURFACE						
MPT-AC-SU-01	MPT-AC-SU-01-05	8/2/2000	-	-	<u> </u>	ļ	~	~
MPT-AC-SU-02	MPT-AC-SU-02-05	8/2/2000	>	-			-	~
MPT-AC-SS03	MPT-AC-SU03-04	11/28/2000	~	-	-			-
MPT-AC-SS04	MPT-AC-SU04-04	11/28/2000	·	<u> </u>				-
MPT-G4-B07	MPT-G4-SU-07-05	6/27/2000	>		-		<u> </u>	Y
TCS00101	TCB00103	5/31/1995	~	~	-			~
MPT-TC-MW06S	TCB00203	5/31/1995	~	~	~	ļ	~	Y
TCS00301	TCB00303	5/31/1995	~	-	~			-
TCS00401	TCB00403	5/31/1995	V	Electrical State of Assessed	<u> </u>	L	Y	~
FPZ00101	FPZ00101	SURFACE S						
FSZ00101	FSZ00101	6/27/1995	•	<u> </u>		 		-
TCS00101	TCS00101	6/27/1995			-	 	-	~
MPT-TC-MW03S	TCS00301	5/31/1995 5/31/1995	<u> </u>	<u> </u>	<u> </u>		-	· ·
TCS00401	TCS00301	5/31/1995					-	-
MPT-TC-MW06S	TCS00201	5/31/1995	<u> </u>	<u> </u>	<u> </u>		-	<u> </u>
MPT-AC-SS03	MPT-AC-SS03-01	11/28/2000	<u> </u>		<u> </u>		-	· ·
MPT-AC-SS04	MPT-AC-SS03-01	11/28/2000		<u> </u>			-	<u> </u>
TCS00101	TCS00101	1/5/2005		<u> </u>	<u> </u>		<u> </u>	
TCS00401	TCS00401	1/5/2005			<u> </u>	-	-	
		GROUNDWA	TER	- 13 - 13 - 1	ment a serie en a	V 3 1 1 1 1		
MPT-TC-DPW01SD	MPT-TC-GW-DPW01D-01	11/30/1999	~	-	V			_
MPT-TC-DPW01SD	MPT-TC-GW-DPW01S-01	11/30/1999		~	-	-	-	-
MPT-TC-DPW02D	MPT-TC-GW-DPW02D-01	12/3/1999		-	J	-	-	-
MPT-TC-DPW02D	MPT-TC-GW-DPW02DD-01	12/3/1999		-	~	-	7	
MPT-TC-DPW03D	MPT-TC-GW-DPW03D-01	12/1/1999		-	-		-	
MPT-TC-DPW03I	MPT-TC-GW-DPW03I-01	12/1/1999	 _	-		-	J	-
MPT-TC-DPW03S	MPT-TC-GW-DPW03S-01	12/1/1999		-	-	-		
MPT-TC-DPW06SI	MPT-TC-GW-DPW06I-01	12/2/1999		-		-	-	
MPT-TC-DPW06SI	MPT-TC-GW-DPW06S-01	12/2/1999		<u> </u>	,	-	J	-
MPT-TC-DPW09D	MPT-TC-GW-DPW09D-01	12/2/1999		-	J	-	-	<u> </u>
MPT-TC-DPW09I	MPT-TC-GW-DPW09I-01	12/2/1999	y	_			-	- V
MPT-TC-DPW04S	MPT-TC-GW-MW04S-01	12/3/1999		~	7	-	,	-
MPT-TC-DPW03DD	MPT-TC-GW-DPW03DD-01	12/1/1999	7	-	~	-	-	-
MPT-TC-DPW03DD	MPT-TC-GWDPW03DD-01-AVG	12/1/1999	7	-	-		-	J
MPT-TC-DPW03DD	MPT-TC-GW-DU01	12/1/1999		<u> </u>	7	-	,	~
MPT-TC-DPW07D	MPT-TC-GW-DPW07D-01	12/6/1999	,	~	7	-	7	<u>,</u>
MPT-TC-DPW07D	MPT-TC-GWDPW07D-01-AVG	12/6/1999	7	<u> </u>	-	<u> </u>	-	-
MPT-TC-DPW07D	MPT-TC-GW-DU02	12/6/1999	· ·	~	~	J	<u> </u>	
MPT-EP-DPW02I	MPT-EP-GW-DPW02I-01	12/6/1999	7	~	7	<u> </u>	7	
MPT-EP-GW-MW03S	MPT-EP-GW-MW03S-01	12/7/1999	7	<u> </u>	<u>,</u>	~	>	7
MPT-EP-DPW04S	MPT-EP-GW-MW04S-01	12/7/1999		~	7	<u> </u>	>	
MPT-AC-GW-DPW01D	MPT-AC-GW-DPW01D-01	1/5/2000		~	~	<u> </u>	7	
MPT-AC-GW-DPW01I	MPT-AC-GW-DPW01I-01	1/5/2000		-	>	-	~	-
MPT-AC-GW-DPW01S	MPT-AC-GW-DPW01S-01	1/5/2000	~	~	<u> </u>	J	~	-

TABLE 3-1 SAMPLE IDENTIFICATION AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

								
Sample Location	Sample ID	Sample Date	Volatile Organics	Semivolatile Organics	Pesticides/PCBs	Herbicides	Inorganics	Miscellaneous
MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02D-01	1/6/2000	¥ .	~	~	~	~	~
MPT-AC-GW-DPW02S	MPT-AC-GW-DPW02S-01	1/6/2000	~	~	~	~	~	~
MPT-AC-GW-DPW03D	MPT-AC-GW-DPW03D-01	1/10/2000	¥	7	>	~	~	~
MPT-AC-GW-DPW031	MPT-AC-GW-DPW03I-01	1/10/2000	~	v	~	~	~	V
MPT-AC-GW-DPW03S	MPT-AC-GW-DPW03S-01	1/12/2000	¥	~	~	~	~	V
MPT-AC-GW-DPW04D	MPT-AC-GW-DPW04D-01	1/6/2000	~	y	>	~	~	~
MPT-AC-GW-DPW04I	MPT-AC-GW-DPW04I-01	1/6/2000	~	~	>	~	~	<u> </u>
MPT-AC-GW-DPW05D	MPT-AC-GW-DPW05D-01	1/10/2000	7	~	~	~	~	-
MPT-AC-GW-DPW05I	MPT-AC-GW-DPW05I-01	1/10/2000	y	y	>	~	~	V
MPT-AC-GW-DPW05S	MPT-AC-GW-DPW05S-01	1/14/2000	7	~	>	~	~	~
MPT-AC-GW-DPW06D	MPT-AC-GW-DPW06D-01	1/13/2000	~	~	~	~	~	<u> </u>
MPT-AC-GW-DPW06I	MPT-AC-GW-DPW06I-01	1/13/2000	~	~	~	¥		
MPT-AC-GW-DPW07D	MPT-AC-GW-DPW07D-01	1/12/2000		>	~	~		
MPT-AC-GW-DPW07I	MPT-AC-GW-DPW07I-01	1/12/2000	~	~	~	~	~	
MPT-AC-GW-DPW07S	MPT-AC-GW-DPW07S-01	1/12/2000		>	>	~	~	
MPT-AC-GW-DPW08D	MPT-AC-GW-DPW08D-01	1/11/2000	~	y	~			
MPT-AC-GW-DPW08I	MPT-AC-GW-DPW08I-01	1/11/2000	~	~	>	~		
MPT-AC-GW-DPW08S	MPT-AC-GW-DPW08S-01	1/11/2000	~	~	>	~	7	7
MPT-AC-GW-DPW09D	MPT-AC-GW-DPW09D-01	1/14/2000	~	V	>		7	7
MPT-AC-GW-DPW09I	MPT-AC-GW-DPW09I-01	1/14/2000		~	_	~	>	
MPT-AC-GW-DPW10I	MPT-AC-GW-DPW10I-01	1/13/2000	~	~	~		7	
MPT-AC-GW-DPW11I	MPT-AC-GW-DPW11I-01	1/11/2000	~	>	~	>	*	
MPT-AC-GW-DPW12I	MPT-AC-GW-DPW12I-01	1/11/2000	~	y	~	>	>	7
MPT-AC-GW-DPW02I	MPT-AC-GW-DPW02I-01	1/6/2000	~	>	~	>	>	7
MPT-AC-GW-DPW02I	MPT-AC-GWDPW02I-01-AVG	1/6/2000	V	~	~	>	>	7
MPT-AC-GW-DPW02I	MPT-AC-GW-DU03	1/6/2000	~	>		>	>	>
MPT-AC-GW-DPW04S	MPT-AC-GW-DPW04S-01	1/12/2000	~	>		>	>	7
MPT-AC-GW-DPW04S	MPT-AC-GWDPW04S-01-AVG	1/12/2000	~	~	~	•	~	>
MPT-AC-GW-DPW04S	MPT-AC-GW-DU04	1/12/2000	~	>	✓	~	_	>
MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S-01	1/13/2000	y	~	-	~	~	>
MPT-AC-GW-DPW06S	MPT-AC-GWDPW06S-01-AVG	1/13/2000	~	~	~	~	~	,
MPT-AC-GW-DPW06S	MPT-AC-GW-DU05	1/13/2000	*	~				7
MPT-G4-B07	MPT-G4-GW-07-05	6/27/2000	~	~			-	~
MPT-47-DPW04S	MPT-G4-GW-39-04	7/7/2000	~	~			~	~
MPT-G4-B34	MPT-G4-GW-34-05	7/7/2000	~	~				
MPT-G4-B35	MPT-G4-GW-35-05	7/7/2000	V	~				
MPT-G4-B40	MPT-G4-GW-40-04	7/7/2000	~	~			~	~
MPT-G4-B66	MPT-G4-GW66-05	3/5/2001	~	~			~	
MPT-G4-B67	MPT-G4-GW67-05	3/5/2001	~	~			~	~
MPT-AC-GW-DPW01I	MPT-AC-DPW01I-RS	4/23/2003		1				
MPT-AC-GW-DPW01S	MPT-AC-DPW01S-RS	4/23/2003					-	
MPT-AC-GW-DPW03I	MPT-AC-DPW03I-RS	4/23/2003					~	
MPT-AC-GW-DPW03S	MPT-AC-DPW03S-RS	4/23/2003					-	
MPT-AC-GW-DPW04D	MPT-AC-DPW04D-RS	4/24/2003					_	
MPT-AC-GW-DPW04I	MPT-AC-DPW04I-RS	4/24/2003						

TABLE 3-1 SAMPLE IDENTIFICATION AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

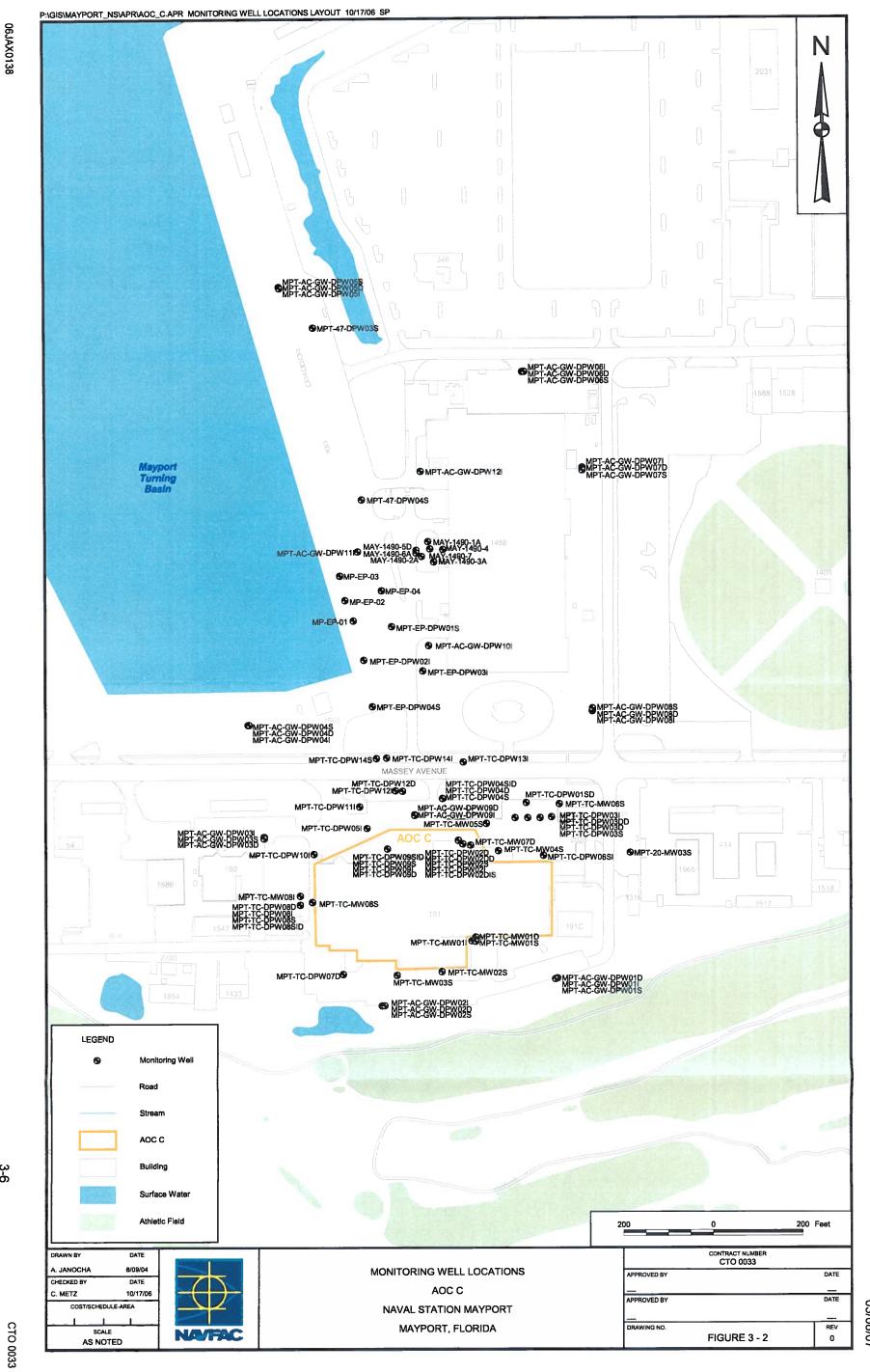
	<u></u>							
Sample Location	Sample ID	Sample Date	Volatile Organics	Semivolatile Organics	Pesticides/PCBs	Herbicides	Inorganics	Miscellaneous
MPT-AC-GW-DPW09D	MPT-AC-DPW09D-RS	4/23/2003					~	
MPT-AC-GW-DPW09I	MPT-AC-DPW09I-RS	4/23/2003					~	
MPT-AC-GW-DPW10I	MPT-AC-DPW10I-RS	4/24/2003	·····				V	
MPT-AC-GW-DPW02D	MPT-AC-DPW02D-RS	4/25/2003					V	
MPT-AC-GW-DPW02D	MPT-ACDPW02D-RS-AVG	4/25/2003			-		y	
MPT-AC-GW-DPW02D	MPT-DU03-RS	4/25/2003					~	
MPT-AC-GW-DPW02I	MPT-AC-DPW02I-RS	4/25/2003					~	
MPT-AC-GW-DPW02I	MPT-ACDPW02I-RS-AVG	4/25/2003					>	
MPT-AC-GW-DPW02I	MPT-DU02-RS	4/25/2003					>	
MPT-AC-GW-DPW02S	MPT-AC-DPW02S-RS	4/25/2003					y	
MPT-AC-GW-DPW02S	MPT-ACDPW02S-RS-AVG	4/25/2003					~	
MPT-AC-GW-DPW02S	MPT-DU01-RS	4/25/2003					~	
MPT-EP-DPW02I	MPT-AC-DPW02I-RS	4/24/2003					Y	
MPT-TC-DPW02D	MPT-TC-DPW02D-RS	4/22/2003					>	
MPT-TC-DPW03D	MPT-TC-DPW03D-RS	4/22/2003			·		>	
MPT-TC-DPW03DD	MPT-TC-DPW03DD-RS	4/22/2003					>	
MPT-TC-DPW03I	MPT-TC-DPW03I-RS	4/22/2003					>	
MPT-TC-DPW03S	MPT-TC-DPW03S-RS	4/22/2003					>	
MPT-TC-DPW04S	MPT-TC-DPW04S-RS	4/22/2003					>	
MPT-TC-DPW06SI	MPT-TC-DPW06I-RS	4/22/2003					>	
MPT-TC-DPW06SI	MPT-TC-DPW06S-RS	4/22/2003					~	
MPT-TC-DPW09D	MPT-TC-DPW09D-RS	4/23/2003					>	
MPT-TC-DPW09I	MPT-TC-DPW09I-RS	4/23/2003					>	
MPT-TCDPW07D	MPT-TCDPW07D	1/5/2005	*					
MPT-AC-DPW01D	MPT-AC-DPW01D	1/5/2005					~	
MPT-TC-DPW02D	MPT-TC-DPW02D	1/5/2005	>					
MPT-TC-DPW09I	MPT-TC-DPW09I	1/5/2005	~					
MPT-TC-DPW05I	MPT-TC-DPW05I	1/5/2005	~					
MPT-EP-DPW02I	MPT-EP-DPW02I	1/5/2005	~					
ள் கொடுகு தொறுகள		SURFACE WA	TER	الريق التا			# '24 /4-/	
MPT-AC-SW01	MPT-AC-SW01-01	11/15/2000						~
MPT-AC-SW01	MPT-AC-SW01	1/5/2005						~



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TABLE 3-2 CONTAMINANTS OF INTEREST AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

List of COIs	Surface Soil	Subsurface Soil	Surface Water	Groundwater
	VOCs			
1,1-DICHLOROETHANE				X
1,1-DICHLOROETHENE		Х		X
1,2-DICHLOROETHANE				X
BROMODICHLOROMETHANE			X	X
CARBON DISULFIDE		Х		X
CHLOROBENZENE				X
CHLORODIBROMOMETHANE			X	X
CHLOROFORM			Х	X
CHLOROMETHANE				X
CIS-1,2-DICHLOROETHENE				X
DICHLORODIFLUOROMETHANE				X
METHANE				X
METHYLENE CHLORIDE	Х	Х		
TETRACHLOROETHENE				Х
TOTAL 1,2-DICHLOROETHENE				X
TRANS-1,2-DICHLOROETHENE				$\frac{x}{x}$
TRICHLOROETHENE				X
TRICHLOROFLUOROMETHANE		Х		
VINYL CHLORIDE				Х
	SVOCs		State annual and the	
1,4-DIOXANE			The second second	X
2-METHYLNAPHTHALENE		X		<u>x</u>
ACENAPHTHENE				x
ACENAPHTHYLENE				$\frac{\hat{x}}{\hat{x}}$
ANTHRACENE				X
BENZO(A)ANTHRACENE	Х			^
BENZO(A)PYRENE	X			
BENZO(B)FLUORANTHENE	X			
BENZO(G,H,I)PERYLENE	X			
BENZO(K)FLUORANTHENE	X			
BIS(2-ETHYLHEXYL)PHTHALATE	Х			
CARBAZOLE				Х
CHRYSENE	X			^
DIBENZOFURAN				X
DIMETHYL PHTHALATE	Х			^
FLUORANTHENE	X			Х
FLUORENE		X		X
INDENO(1,2,3-CD)PYRENE	Х			^
NAPHTHALENE				
PHENANTHRENE	х	х		X
PHENOL				X
PYRENE	X			
PYRIDINE				X
SULFOTEPP				X
THIONAZIN				X
Color of No. 100 Miles Color	Pesticides/PC			Х

TABLE 3-2 CONTAMINANTS OF INTEREST AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

List of COIs	Surface Soil	Subsurface Soil	Surface Water	Groundwater
2,4-D				Х
4,4'-DDE	X	Х		X
4,4'-DDT		Х		
ALDRIN				Х
AROCLOR-1260	Х			
BETA-BHC				
CHLORDANE	Х	Х		
GAMMA-BHC (LINDANE)				X
HEPTACHLOR	Х			
HEPTACHLOR EPOXIDE	Х			
PHORATE				X
SULFOTEPP				X
THIONAZIN				- X
	Inorganics		A VS I A TO THE	
ALUMINUM	X	X		X
ANTIMONY				
ARSENIC	Х	Х		X
BARIUM	X	X	х	X
BERYLLIUM	X	X		x
CADMIUM	Х	X		x
CALCIUM	Х	X	X	
CHROMIUM	Х	X		x
COBALT	X	X		X
COPPER	Х	X		X
CYANIDE	Х	X		X
IRON	Х	X		X
LEAD	Х	X		<u>x</u>
MAGNESIUM	Х	X	X	X
MANGANESE	Х	X		$\frac{\hat{x}}{x}$
MERCURY		X		
MOLYBDENUM		X		X
NICKEL	Х	X		×
POTASSIUM		X	X	- Â
SELENIUM	X	X		X
SODIUM	X	X	X	x
THALLIUM				$-\hat{x}$
TIN	Х	Х		^
VANADIUM	X	X		х
ZINC	X	X		- x

3.2.1.1 Selection of Surface Soil COPCs – Human Health

The COPC screening evaluation for surface soil at AOC C involves an evaluation of COIs for direct exposure and leaching to groundwater. Because less than 20 surface soil samples were collected at AOC C; none of the COIs were eliminated based on frequency of detection. As shown in Table 3-3, the direct exposure COPC screening process for surface soil identified no contaminants that exceeded the SCTLs for direct residential exposure (target criteria).

Because surface water (i.e., Mayport Turning Basin) is located more than 300 feet from AOC C, leaching of soil to groundwater was evaluated. The leaching to groundwater evaluation involves a direct comparison to the leaching to groundwater SCTLs. Table 3-4 shows the leaching to groundwater evaluation, which determined that no contaminants have the potential to leach from the soil and impact groundwater. Therefore, no contaminants were selected as COPCs for surface soil.

3.2.1.2 Selection of Subsurface Soil COPCs - Human Health

The COPC screening evaluation for subsurface soil involves an evaluation of COIs for direct exposure and leaching to groundwater. Less than 20 subsurface soil samples were collected at AOC C; therefore, none of the COIs were eliminated based on frequency of detection. Table 3-5 shows the direct exposure COPC screening process for subsurface soil and identified no contaminants that exceeded the SCTLs for direct residential exposure (target criteria).

Because surface water (i.e., Mayport Turning Basin) is located more than 300 feet from AOC C, leaching of soil to groundwater was evaluated. The leaching to groundwater evaluation involves a direct comparison to the leaching to groundwater SCTLs. Table 3-6 shows the leaching to groundwater evaluation, which determined that one contaminant, dimethoate, has the potential to leach from the soil and impact groundwater. Therefore, dimethoate was selected as a COPC for subsurface soil.

3.2.1.3 Selection of Surface Water COPCs – Human Health

The COPC screening process identified no contaminants in surface water that exceeded the SWCTLs for protection of marine surface water. Because the SWCTLs for protection of marine surface water do not include a direct exposure pathway for human receptors (i.e., the SWCTLs are based on human consumption of fish or ecological endpoints), no adjustment to the SWCTLs was made for potential additive effects by carcinogens or noncarcinogens. The results of the COPC screening process are presented in Table 3-7.

SURFACE SOIL INITIAL COPCS. RESIDENTIAL DIRECT EXPOSURE AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA TABLE 3-3

CHEMICAL OF INTEREST	CHEMICAL ABSTRACT NUMBER	FREQUENCY OF DETECTION	Max Conc. (mg/kg)	SCTL RESIDENTIAL' (mg/kg)	TARGET ORGANISYSTEM OR EFFECT	ADJUSTMENT DIVISOR 2	INITIAL TARGET CRITERIA 2 (mg/kg)	EXCEEDS INITIAL TARGET LEVELS ³
Volatile Organics		150 To 15		ALCOHOLD MAN MOTORS IN	STATE OF THE PERSON OF THE PER		The second second	
Methylene Chloride	75-09-2	3/8	0.0046	17	Carzingen - Liver		47.0	Paris I
Benzo(a)anthracene	56-55-3	1/8	0.051	0.1	Carcinogen	-		2 2
Benzo(g.h.i)perylene	191-24-2	1/8	0.085	2,500	Neuroleoical		2 500	ON ON
Benzo(k)fluoranthene	207-08-9	2/8	0.23	0.1	Carcinogen		- 10	a No.
Bis(2-Ethythexyl)phthalate	117-81-7	1/8	690.0	72	Carringoan -Liver		2002	1
Chrysene	218-01-9	3/8	0.21	0.1	Carcingan		0.40	DE PART
Dimethyl Phthalate	131-11-3	1/8	0.11	000'069	Kidnev		890 000	2 2
Fluoranthene	206-44-0	3/8	0.3	3,200	Blood - Kidney - Liver		3 200	2
Indeno(1.2,3-cd)pyrene	193-39-5	1/8	0.087	0.18	Carcingen	-	10	PoN.
Phenanthrene	85-01-8	2/8	0.071	2,200	Kidnev		2200	S. S.
Pyrene	129-00-0	3/8	0.22	2.400	Kidnev		2.400	2
Benzo(a)pyrene equivalents	-	ı	0.03701	0.1	Carcinosen		0.4	2
Pesticides		Supplemental Suppl		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Service Control of the Control of th		
4.4-DDE	72-55-9	1/8	0.0023	2.9	Continues		0000	
Aroclor-1260	11096-82-5	1/8	0.025	0.5	Carringan Imminological	-	2.500	2
Chlordane	57-74-9	3/8	0.093	28	Continue of the state of the st		2000	2
Heptachtor	76-44.B	1/8	00013		Carcinogen - Cher		2.800	2
Morganics	The state of the s			***	Carcinogen -Liver		0.200	왕
Auminum	7429-90-5	200	RGR	80,000			Address of Charles	No. of Persons and
Arsenic	7440-38-2	3/8	950	2.1	Constitution Constitution		2	2
Banum	7440.39.3	8/8	1	420	Carcinogen -Cardiovascular -Skin		2.10	ž
Bervium	7440417	7,0		120	Cardiovascular	-	120	Š
Cadmin	0 07 0772			120	Cardnogen -Gastronfestinal -Respiratory		120	Š
Chamina VI	10540405	0/1	1044	82	Carcinogen -Kidney	-	82	å
	B-67-04001	80	12.8	210	Carcinogen -Respiratory	-	210	2
Cobalt	7440-48-4	1/8	97.0	1.700	Cardiovascular -Immunological -Neurological- Reproductive	_	2002	1
Copper	7440-50-8	6/8	8.9	150	None Specified	-	1	
ron	7439-89-6	2/2	1020	53.000	Blood -Gastrointestinal	-	53,000	2 2
Lead	7439-92-1	8/8	21.5	400	Neurological		400	2
Manganese	7439-96-5	272	18.2	3,500	Neurological	-	3 500	2
Nickei	7440-02-0	3/8	3.6	340	Body Weight		240	
Selenium	7782-49-2	1/8	0.2	440	Hair Loss -Neumlooical -Skin		200	
E.	7440-31-5	1/8	5.7	47.000	Kidney - I war		2000	2
Vanadium	7440-62-2	8/8	5.4	67	None Specified		200-12	
Zinc	7440-66-6	8/8	48.2	26.000	Blood		2000	2
Macallaneous Parameters		TO MAN THE STATE OF	THE WAY TO SELECT		Popul		20,000	9
Cyanide	57-12-5	4/8	0.15	75				100 EU E
The same of the sa			1	5	Body Weight - Neurological - Thyroid		ž	2

3-10

² Per the "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.", when using the maximum concentration approach, potential additive toxicity among chemicals is addressed implicitly by taking the conservative approach of comparing the maximum concentration with the SCTL. No adjustment of SCTLs for individual chemicals is needed with SCTLs.

Comparison of the Initial Target Critera with the Maximum Concentration.
 Cofferia for hexavalent chromum used.
 Refer to the table below for the Total Benzo(a)pyrene Equivalent calculation which shows that the equivalent concentration is below the residential direct exposure SCTL of 0.1.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo (a) pyrene Equivalents
Benzo(a)anthracene	0.051	-0	0.005
Benzo(a)pyrene	0.00	1.0	800
Benzo(b)fluoranthene	0:00	-	
Benzo(k)fluoranthene	0.23	00	0000
Chrysene	0.21	0.001	0000
Dibenz(a,h)anthracene	00.00	1.0	0000
Indeno(1,2,3-cd)pyrene	0.087	0.1	600.0

Direct Exposure Residential SF

0.02

06JAX0138

TABLE 3-4 SURFACE SOIL INITIAL COPCS - LEACHING TO GROUNDWATER **AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA**

CHEMICAL OF INTEREST	CHEMICAL ABSTRACT NUMBER	FREQUENCY OF DETECTION	MAXIMUM CONCENTRATION (mg/kg)	SCTL LEACHING TO GROUNDWATER ¹ (mg/kg)	COPC BASED ON LEACHING ² (Yes/No)
Volatile Organics					
Methylene Chloride	75-09-2	3/8	0.0046	0.02	No
Benzo(a)anthracene	56-55-3	1/8	0.051	0.8	
Benzo(g,h,i)perylene	191-24-2	1/8	0.085	32000	No
Benzo(k)fluoranthene	207-08-9	2/8	0.003		No No
Bis(2-Ethylhexyl)phthalate	117-81-7	1/8	0.069	24	No
Chrysene	218-01-9	3/8		3600	No
Dimethyl Phthalate	131-11-3	1/8	0.21 0.11	77	No
Fluoranthene	206-44-0	3/8		380	No
Indeno(1,2,3-cd)pyrene	193-39-5	1/8	0.3	1200	No
Phenanthrene	85-01-8	2/8	0.087	6.6	No
Pyrene	129-00-0	3/8	0.071	250	No
Pesticides	125-00-0	3/8	0.22	880	No
S. S					
4,4'-DDE	72-55-9	1/8	0.0023	18	No
Aroclor-1260	11096-82-5	1/8	0.025	17	No
Chlordane	57-74-9	2/6	0.093	9.6	No
Heptachlor	76-44-8	1/8	0.0013	23	No
Inorganics					110
Aluminum	7429-90-5	2/2	698	No Criteria	No
Arsenic	7440-38-2	3/8	0.56	No Criteria	No
Barium	7440-39-3	8/8	7.7	1600	No
Beryllium	7440-41-7	4/8	0.12	63	No
Cadmium	7440-43-9	1/8	0.44	7.5	No
Chromium VI	18540-29-9	8/8	12.8	No Criteria	No
Cobalt	7440-48-4	1/8	0.76	No Criteria	No
Copper	7440-50-8	6/8	8.9	No Criteria	No
Iron	7439-89-6	2/2	1020	No Criteria	No
Lead	7439-92-1	8/8	21.5	No Criteria	No
Manganese	7439-96-5	2/2	18.2	No Criteria	No
Nickel	7440-02-0	3/8	3.6	130	No
Selenium	7782-49-2	1/8	0.2	5.2	No
Tin	7440-31-5	1/8	5.7	No Criteria	No
Vanadium	7440-62-2	8/8	5.4	980	No
Zinc Miscellaneous (mg/kg)	7440-66-6	8/8	48.2	No Criteria	No
macenaneous (mg/kg)			3-1-1	individuality is a second	Date of the second

¹ SCTL - Soil Cleanup Target Level for soil leaching to groundwater - Chapter 62-777 F.A.C., April 2005

² A COI is selected as a COPC if the maximum concentration of that chemical exceeds the leaching target criteria.

³ Criteria for hexavalent chromium used.

TABLE 3-5
SUBSURFACE SOIL INITIAL COPCS - RESIDENTIAL DIRECT EXPOSURE
AOC C CORRECTIVE MEASURES STUDY
NAVAL STATION MAYPORT
MAYPORT, FLORIDA
PAGE 1 OF 2

CHEMICAL OF INTEREST	CHEMICAL ABSTRACT NUMBER	FREQUENCY OF DETECTION	MAXIMUM CONCENTRATION (mg/kg)	SCTL RESIDENTIAL ¹ (mg/kg)	TARGET ORGANSYSTEM OR EFFECT	INITIAL TARGET CRITERIA ² (mg/kg)	EXCEEDS INITIAL TARGET
Semivolatile Organics	21年の日本山中の2017		ACCURATION OF SERVICE			5	
2-Methylnaphthalene	91-57-6	1/16	0.5	210	Dody Michely Michel		ALESS PROPERTY OF
Fluorene	86-73-7	1/16	0.4	2 200	Description and a	012	2
Phenanthrene	85-01-8	1/16	0.68	2,000	DOORG	2,200	2
Volatile Organics	100 A	Contraction of the Contraction o		2,000	Naney	2,000	2
1,1-Dichloroethene	75-35-4	1/16	0.00079	60.0	Parcipose I iver	000	Section of the sectio
Carbon Disulfide	75-15-0	2/16	0.0014	000	Domological Manager	60.08	2
Methylene Chloride	75-09-2	6/16	7000	34	Developinemai -iveurologicai	200	8
			**************************************	9	Carcinogen -Liver	16	No
Trichlorofluoromethane	75-69-4	1/16	0.002	200	Cardiovascular - Kidney - Mortality - Respiratory	000	
Pesticides	1000		Charletter Charletter			7007	2
4,4'-DDE	72-55-9	2/8	0.0029	33		Section of the second	
4,4'-DDT	50-29-3	1/8	0 0032	33	Cardrogen	3.3	2
Chlordane	57.74.0	1	0,000	200	Cardnogen -Liver	3.3	ž
OrganoPhos Pesticides	18	1	810.0	3.1	Carcinogen -Liver	3.1	ž
Dimothooto	4			STATE OF STREET		SAME SERVICE STREET	100 to 10
Chinemoate	60-51-5	1/2	0.01	8.4	Neurological	1 8	214
Inorganics			AND LONG THE REAL PROPERTY.		BOIL DO	4:0	02
Aluminum	7429-90-5	12/12	2290	72.000	Body Weight	OI 4	The Control of the Co
Arsenic	7440-38-2	2/16	1.6	2.1	Carcinopa Cardional and Carlos	2	02
Barium	7440-39-3	16/16	6.1	110	Ordinate - Cardinate - Onti	17	SO.
Beryllium	7440-41-7	3/16	0.15	120	Cardiovas Cardiovas Called	OLL	2
Cadmium	7440-43-9	5/16	0.27	77	Carcingten - Gasuomitestinal - Respiratory	120	2
Chromium VI	18540-29-9	13/16	u	2 2	Cardinogen -Nidney	75	Š
			+	OLZ	Carcinogen -Respiratory	210	2
Cobalt	7440-48-4	5/16	0.63	4 700	Cardiovascular -Immunological -Neurological-		
Copper	7440-50-8	7/16	6.6	110	Pairondon Andrews	4,700	S _N
Iron	7439-89-6	12/12	2420	2000	None Specmed	110	8
		7177	07 4 7	23,000	Blood -Gastrointestinal	23,000	

SUBSURFACE SOIL INITIAL COPCs - RESIDENTIAL DIRECT EXPOSURE **AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT** MAYPORT, FLORIDA PAGE 2 OF 2 **TABLE 3-5**

COI 1	CAS	FOD 2	Max Conc. (mg/kg)	SCTL RESIDENTIAL ¹ (mg/kg)	TARGET ORGAN/SYSTEM OR EFFECT	INITIAL TARGET CRITERIA 3 (mg/kg)	EXCEEDS INITIAL TARGET LEVELS ⁴
inorganics (cont'd)	A STATE OF STATE OF	All the second second			South with the control	Contraction of the Contraction	The second second
Lead	7439-92-1	16/16	14.3	400	Neurological	400	S _N
Manganese	7439-96-5	12/12	27.5	1,600	Neurological	1.600	Š
Mercury	7439-97-6	2/16	0.03	3.4	Neurological	3.4	Ž
Molybdenum	7439-98-7	1/2	0.43	390	Gout	390	2
Nickel	7440-02-0	6/16	2.2	110	Body Weight	110	2
Selenium	7782-49-2	2/16	0.58	390	Hair Loss -Neurological -Skin	390	Ž
Tin	7440-31-5	4/16	4.8	44,000	Kidney -Liver	44.000	Š
Vanadium	7440-62-2	15/16	7.8	15	None Specified	15	No.
Zinc	7440-66-6	11/16	38.2	23,000	Blood	23.000	S.

SCTL - Soil Cleanup Target Level for Residential Direct Exposure - Chapter 62-777 F.A.C., April 2005

² Per the "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.", when using the maximum concentration approach, potential additive toxicity among chemicals is addressed implicitly by taking the conservative approach of comparing the maximum concentration with the SCTL. No adjustment of SCTLs for individual chemicals is needed when maximum concentrations of chemicals present are compared with SCTLs.

³ Comparison of the Initial Target Criteria with the Maximum Concentration.

^{*} Criteria for hexavalent chromium used.

SUBSURFACE SOIL INITIAL COPCs - LEACHING TO GROUNDWATER AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA **TABLE 3-6**

CHEMICAL OF INTEREST	CHEMICAL ABSTRACT NUMBER	FREQUENCY OF DETECTION	MAXIMUM CONCENTRATION (mg/kg)	SCTL LEACHING TO COPC BASED ON GROUNDWATER¹ (Yes/No)	COPC BASED O LEACHING ² (Yes/No)
Volatile Organics		THE PERSON NAMED IN COLUMN		THE PARTY OF THE P	
Carbon Disulfide	75-15-0	2/16	0.0014	5.8	QN .
Methylene Chloride	75-09-2	6/16	0.004	0.00	2 2
Trichlorofluoromethane	75-69-4	1/16	0 000	33	2 4
Pesticides	THE PERSON NAMED IN COLUMN TWO		STATE OF THE STATE	200	2
4,4'-DDE	72-55-9	2/8	0.0029	18	ON
4,4'-DDT	50-29-3	1/8	0.0032	2 =	2 2
Chlordane	57-74-9	1/4	0.019		
OrganoPhos Pesticides			Control of the second s		200
Dimethoate	60-51-5	1/2	0.01	9000	Vec
Inorganics					3
Aluminum	7429-90-5	12/12	434	No Criteria	SN
Arsenic	7440-38-2	7/16	0.75	No Criteria	2
Barium	7440-39-3	16/16	6.1	1600	2
Beryllium	7440-41-7	3/16	0.15	63	2
Cadmium	7440-43-9	5/16	0.083	@	S
Chromium VI	18540-29-9	13/16	2.1	38	S
Copper	7440-50-8	7/16	2.2	No Criteria	No.
Iron	7439-89-6	12/12	648	No Criteria	2
Lead	7439-92-1	16/16	2.2	No Criteria	2
Manganese	7439-96-5	12/12	12.8	No Criteria	<u>8</u>
Selenium	7782-49-2	2/16	0.56	2	S
lin	7440-31-5	4/16	4.8	No Criteria	2
Vanadium	7440-62-2	15/16	1.9	086	2
Zinc	7440-66-6	11/16	38.2	9000	2 2
Miscellaneous	September 1964	Too date of the control of			2
Cyanide	57-12-5	4/16	0.17	40	S
	A CONTRACTOR OF THE PROPERTY.				2

SCTL - Soil Cleanup Target Level for soil leaching to groundwater - Chapter 62-777 F.A.C., April 2005
 A COI is selected as a COPC if the maximum concentration of that chemical exceeds the leaching target criteria.
 Criteria for hexavalent chromium used.

TABLE 3-7
SURFACE WATER INITIAL COPCs - FRESHWATER SURFACE WATER
AOC C CORRECTIVE MEASURES STUDY
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

Chemical Of Interest	Chemical Abstract Number	Frequency of Detection	Maximum Concentration (µg/L)	Freshwater SWCTL¹(µg/L)	Exceeds MSW SWCTL ²
Volatile Organics		1	, See	TO THE PROPERTY OF THE PARTY OF	A STATE OF THE PARTY OF THE PAR
Bromodichloromethane	75-27-4	1/1	1.9	22	SN N
Chlorodibromomethane	124-48-1	1/1	0.98	8	S
Chloroform	67-66-3	1/1	3.9	470.8	S S
Inorganics		28	73. ×	20	TOTAL STATE
Barium	7440-39-3	1/1	21.6	2000	S
Miscellaneous Parameters		STATE OF STA	Charles de Maria Salado Calaba		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cyanide	57-12-5	1/1	0.004	5.2	S
A 2.4.2.				4:5	2

Notes: SWCTL = Surface Water Target Cleanup Level, Chapter 62-777, Florida Administrative Code

3.2.1.4 Selection of Groundwater COPCs – Human Health

The initial COPC screening process for groundwater begins with separating COIs that have a primary or secondary standard. COIs with a primary or secondary standard are compared directly to the GCTLs to determine initial COPCs. COIs without a primary or secondary standard were adjusted according to the number of carcinogens or the number of noncarcinogens affecting the same target organ/system. For example, as shown in Table 3-8, because 10 contaminants present in groundwater were carcinogens, the GCTLs for these contaminants were divided by 10 to achieve the initial target criteria. More than 20 groundwater samples were collected at AOC C; therefore, several COIs were eliminated based on frequency of detection. Because AOC C is located more than 300 feet from a surface water body (Mayport Turning Basin), the discharge of groundwater into marine surface water was not evaluated as a pathway of concern. The initial COPC screening process identified eight contaminants (1,1-DCE, VC, iron, manganese, sulfate, 1,1-dichlorethane, chloroform, and 1,2-DCE total) that exceeded the adjusted GCTLs (initial target levels), as shown in Table 3-8.

A final COPC evaluation was performed according to the methodology detailed in Section 1.5.3.1. The maximum concentration of all initial COPCs was compared to the adjusted GCTLs for all contaminants without a primary or secondary standard. Table 3-9 presents the comparison of maximum detections with the adjusted GCTLs and lists the final groundwater COPCs. Two contaminants (VC and 1,1-DCE) were selected as final COPCs.

3.2.2 <u>Contaminants of Concern – Human Health</u>

The representative concentration of the COPCs for each environmental medium was compared to the FDEP CTLs (Chapter 62-777, FAC) for subsurface soil and groundwater, as appropriate. Section 1.4.3.3 provides a detailed description of the process for the identification of COCs. No COC evaluation was performed for surface soil or surface water because no final COPCs had been identified.

3.2.2.1 Selection of Subsurface Soil COCs - Human Health

Less than 10 samples were collected and analyzed for the subsurface soil COPC at AOC C. Therefore, a 95 percent upper confidence level (UCL) was not calculated for the final COPC (dimethoate). The maximum detected concentration was used as the representative concentration. The representative concentration for dimethoate exceeded its SCTL for leaching to groundwater (Table 3-10). However, dimethoate was not detected in any groundwater, surface water, or surface soil sample collected at AOC C. Because dimethoate does not appear to be leaching into groundwater and is not present in any

TABLE 3-8
GROUNDWATER INITIAL COPCS
AOC C CORRECTIVE MEASURES STUDY
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

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							The state of the s		
Chemical of Interest	Chemical Abstract Number	Frequency of Detection	Maximum Concentration (ug/L)	GCTL¹ (ug/L)	Targety Criteria² (P/S, HH) ⁶	Target Organ/System or Effect	Adjustment Divisor³	Initial Target Lever	Exceeds Initial Target
Constituents with Primary or Secondary Standa	condary Stand	ards						B173157980	
Volatile Organica (ug/l.)	では、 ないのでは、 大	以 · · · · · · · · · · · · · · · · · · ·	は現代をおりませんです。	West State				STAN STANS	
1,1-Dichloroethene	75-35-4	8/53	14	10 Sec. 15 Per	0,0				
1,2-Dichloroethane	107-06-2	3/53	0.97	1	2 2		-	7	Υes
Chlorobenzene	108-90-7	1/53	0.086	2	SA		1	6	2
Tetrachloroethene	127-18-4	2/53	2.7	3	S		1	100	2
Trans-1,2-dichloroethene	156-60-5	9/53	1	2	S		1	8	No.1
Trichloroethene	79-01-6	13/53	12	3,	S		1	100	ž
Vinyl Chloride	75-01-4	7//53		?	2		-	3	ž
cis-1,2-dichloroethene	156-59-2	19/53	5.7	-	P/S		1	-	Xex
Inorganics (ug/L)	S. F. S.		5	0/	PNS			2	2
Aluminum	7429-90-5	6/53	007	STATES AND SECTION OF SECTION AND SECTION ASSESSMENT OF SECTION ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT AS	STATE OF THE PARTY OF		Children Constitution	See 3000 4 3000	Series of the st
Antimony	7440-36-0	3/63	SS C	200	P/S		-	700	Š
Arsenic	7440-38-2	6/53	4.0	١	P/S		-	9	ž
Barium	7440-39-3	39/53	11 2	2 2	P/S		_	22	ž
Beryllium	7440-41-7	1/62	32.7	2,000	P/S		-	2.000	2
Cadmium	7440-43-0	2/62	0.21	4	P/S		-	-	2
Chromium	7440-47-3	6/63	0.83	2	P/S		-	LC:	2
Copper	7440-50-B	2/62	- 10	100	P/S		-	100	2
ron	7439-89-6	32/53	9.8	00,	P/S		 	1000	2
Lead	7439-92-1	1/53	4.7	000	P/S		1	300	Yes
Manganese	7439-96-5	52/53	386	2	Sid		-	15	Š
Nickel	7440-02-0	16/53	300	8	P/S		-	82	Z A
Selenium	7782-49-2	1/53	20.3	3	P/S		-	9	Ž
Zinc	7440-66-6	6/63	3.5	20	P/S		-	5	2 2
Herbicides (ug/L)	0.00	0000	223	2,000	P/S			2000	
2,4-D	94-75-7	1/46	000					Bert California	District Co.
Pesticides/PCBs (ug/L)		COR. SERVICES AND INC.	0.20	٥/	P/S		-	2	ş
gamma-BHC (Lindane)	58-89-9	2/44	2000		ACT TO SERVE THE			SAN SERVICE SAN SE	A STATE OF
otepp	3689-24-5	1/48	0.4	Z N	SI		-	0.20	ž
				1				SN	SZ.

TABLE 3-8 (CONTINUED) GROUNDWATER INITIAL COPCS AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

PAGE 2 OF 3

				10 4 JOY 1	•				
Chemical of Interest	Chemical Abstract Number	Frequency of Detection	Maximum Concentration (ug/L)	GCTL¹ (ug/L)	Targety Criteria ² (P/S, HH) ⁶	Target Organ/System or Effect	Adjustment Divisor ³	Initial Target Lever	Exceeds Initial Target
Miscellaneous Parameters (ug/L	SKEWAL SE	A CONTRACTOR					NOS OF SHIP OF	(1/8n)	
Cyanide	57-12-5	1/53	5.5	200	P/S		-	200	2
Nitrate	14797-55-8	2/24	200	10,000	P/S		-	10,000	2
Sulfate	14808-79-8	22/24	570000	250,000	P/S		-	250,000	Yes
Constituents without Primary or Secondary Stan	Secondary Sta	ndards							
	The Control of the Co								
Acidica (1971)							STREET, STREET		1000年
1,1-Dichloroethane	75-34-3	20/53	42	70	Ŧ	Kidney	5	14	Yes
Bromodichloromethane	75-27-4	1/53	0.33	1	Ŧ	Carcinogen Kidney	6	0.07	No-1
Carbon Disulfide	75-15-0	14/53	4.5	700	Ŧ	Developmenal Neurological	2	350	S S
Chlorodibromomethane	124-48-1	1/53	0.2	9.4	₹	Carcinogen Liver	10	0.04	No-1
Chloroform	67-66-3	6/23	4.6	9	Ŧ	Carcinogen Liver	10	9.0	Yes
Chloromethane	74-87-3	1/53	0.48	9	王	Carcinogen	6	0.3	No-1
Dichlorodifluoromethane	75-71-8	1/53	0.78	1,400	Ŧ	Body Weight Liver	10	140	S.
Methane	74-82-8	24/24	4400	SS			-	SN	S.
1,2-Dichloroethene (Total)	540-59-0	16/53	99	63	Ŧ	Blood Liver	10	6.3	Yes
Semivolatile Organics (ug/L)	A. 19 A. S. C.	SHARE PLANT					A CONTRACTOR OF THE PARTY OF TH	23.00	STEED STEED
1,4-Dioxane	123-91-1	2/53	16	2	壬	Carcinogen	6	0.56	No-1
2-Methylnaphthalene	91-57-6	1/53	92	20	Ŧ	Body Weight Nasal	4	5.0	No-1
Acenaphthene	83-32-9	2/53	66	20	Ŧ	Liver	10	2	No-1
Acenaphthylene	208-96-8	1/53	1.8	210	Ŧ	Body Weight Liver	10	21	2
Anthracene	120-12-7	1/53	2.1	2,100	Ŧ	None Specified	-	2,100	2
Carbazole	86-74-8	1/53	18	4	Ŧ	Carcinogen	6	4.0	No-1
Dibenzofuran	132-64-9	1/53	26	28	壬	None Specified	-	28	No-1
Fluoranthene	206-44-0	2/53	38	280	Ŧ	ᅜ	10	28	No-1
Fluorene	86-73-7	1/53	40	280	Ŧ	Blood	8	93	2
Naphthalene	91-20-3	1/53	140	20	壬	Body Weight Nasal	4	5	No-1
Phenanthrene	85-01-8	1/53	29	210	Ŧ		5	42.0	No No
Phenol	108-95-2	1/53	1.5	9	Ŧ	Developmental	2	5.0	2
Pyrene	129-00-0	2/53	46	210	Ŧ	Kidney	5	42	No.1
Pyridine	110-86-1	1/53	2.6	7	Ŧ	Liver	10	0.7	No-1

AOC C CORRECTIVE MEASURES STUDY GROUNDWATER INITIAL COPCS NAVAL STATION MAYPORT TABLE 3-8 (CONTINUED) MAYPORT, FLORIDA

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				0 10 0 10 W L	2				
Chemical of Interest	Chemical Abstract Number	Frequency of Detection	Maximum Concentration (ug/L)	GCTL¹ (ug/L)	Targety Criteria ² (P/S, HH) ⁶	Target Organ/System or Effect	Adjustment Divisor ³	Initial Target Level	Exceeds Initial Target
Pesticides/PCBs (ug/L)	100 miles	200	77	Astrophy .	Section and the	\$2000 To 100000	Shearth at	(mg/L)	Levei
4,4'-DDT	50-29-3	1/46	0.011	100	E	Carcinonan Liver	40	100	
Aldrin	309-00-2	1/46	0.0062	0.005	Ħ	Cardinogon Live	2 9	0.01	-02
beta-BHC	319-85-7	1/45	0 00	200		Calculogen Liver	2	C000.0	No-1
Inorganics (ug/L)		2.7	0000	0.02	THE STATE OF	Cardnogen	50	0.002	No-1
	Children of the Column of the								
						Cardiovascular			
Cobalt	7440-48-4	1/53	<u>.</u>	420	<u></u>	Immunological Neurological	7	210	ž
Mohrbonim						Reproductive			
wolybaelluff	7439-98-7	2/2	5.8	32	Ŧ	Sort	-	35	
Vanadium	7440-62-2	16/53	3.9	40	=	Money Consider	-	3 5	
			9:5	2	1111	None openied	_	24	Š

GCTL for direct contact with groundwater in an industrial setting, from FAC. Chapter 62-777, Table I, dated April 17, 2005.

2 Indicates target criteria used to determine the effects on organs and/or systems by COI.

³ Adjustment Divisor is determined by the number of carcinogens or noncarcinogens that affect the same target organ.

4 The GCTL for direct exposure to groundwater in an industrial setting from Chapter 62-777 FAC, Table I, was divided by the number (i.e. adjustment divisor) of carcinogenic COIs or non-carcinogenic COIs that affect the same target organ/system to account for cumulative affects.

⁵ Comparison of the Initial Target Criteria with the Maximum Concentration.

6 "P/S" means that the constituent has a primary or secondary standard and "HH" means that the constituent does not have a primary or secondary standard and therefore, human health criteria apply acfcording to the indicated relevant target organ.

No-1 = eliminated based on frequency of detection

AOC C CORRECTIVE MEASURES STUDY **GROUNDWATER FINAL COPCs** NAVAL STATION MAYPORT MAYPORT, FLORIDA **TABLE 3-9**

						_		Cumulative Cancer or Target Organ/System Analysis³	ncer or T	arget		Final	
Chemical of Interest	Chemical of Interest	Chemical of Frequency Interest of Detection	Max Conc. (ug/L)	GCTL¹ (ug/L)	Criteria ² (P/S, HH) ⁷	Target Organ/System or Effect	boola	Carcinogen	Kidney	Liver	Adjustment Divisor ⁴	Target Level ⁶ (ug/L)	COPC Based on GCTL ⁶
Constituents with Primary or Secondary Standards	Secondary Sta	ındards	40.00										
Volatile Organics	20日本の日本の		THE REAL PROPERTY.			No. of the last of							
Vinyl Chloride	75-01-4	7/53	2.2	-	P/S						-	-	Yes
1,1-Dichloroethene	75-35-4	8/53	14	7	P/S				Ī	T	-	-	X vo
Inorganics		Service Services	10 15 15 15 15 15 15 15 15 15 15 15 15 15	10 M. B. S. S.	THE STATE OF THE S	20160 Ja. 6344 Select	10 to	RESTURBANTO	Shirt Direct	0.00	5-12-150 PV 2-10-16	##25044454	S. MANDARIA
Iron	7439-89-6	32/53	8630	300	P/S						-	900	X-ON
Manganese	7439-96-5	52/53	386	20	P/S					Ī	-	25	No.x
Miscellaneous		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE OF		S. S		Ser 5.700	S-126-288-60	BRESTORIGE	Beat No. Carlo	SCHOOL STOCKED AND	are lifespelle	STATE OF THE PARTY OF
Sulfate	14808-79-8	22/24	570000	250,000	P/S				Ī		-	250,000	X-ON
Constituents without Primary or Secondary Standards	or Secondary	Standards			4) (1)								
Volatile Organics	· · · · · · · · · · · · · · · · · · ·	A STATE OF S	THE PERSON				THE REAL PROPERTY.				45 S 10 S 1		
1,1-Dichloroethane	75-34-3	20/53	42	65		Kidney			9.0		-	02	S
Chloroform	67-66-3	6/53	4.6	9	Ŧ	Carcinogen Liver		0.81			-	5.70	ž
1,2-Dichloroethene (Total)	540-59-0	16/53	99	63	₹	Blood Liver	6.0			6.0	-	63	2
						Cumulative Sum =	6.0	0.81	9.0	6.0			

GCTL for direct contact with groundwater in an industrial setting, from FAC Chapter 62-777, Table I, dated April 17, 2005.

2 Indicates target criteria used to determine the effects on organs and/or systems by COI.

3 The ratio of the maximum detected concentration to the GCTL is shown for each COPC. A ratio or sum of ratios greater than 1 for carcinogens or for any

organ/system indicates an exceedance of FDEP guidance (ratios only shown for COIs that exceed direct contact during initial screen).

The GCTL for direct exposure to groundwater in an industrial setting from Chapter 62-777 FAC, Table I, was divided by the number (i.e. adjustment divisor) of Adjustment Divisor is determined by the number of carcinogens or noncarcinogens that affect the same target organ.

carcinogenic COIs or non-carcinogenic COIs that affect the same target organ/system to account for cumulative affects.

An initial COPC is selected as a final COPC if the maximum concentration of that chemical exceeds the mimimun GCTL.

"P/S" means that the constituent has a primary or secondary standard and "HH" means that the constituent does not have a primary or secondary standard and, therefore, human health criteria apply acfcording to the indicated relevant target organ.

No-x = eliminated based on frequency of detection

SUBSURFACE SOIL COCs - LEACHING TO GROUNDWATER **AOC C CORRECTIVE MEASURES STUDY** NAVAL STATION MAYPORT MAYPORT, FLORIDA **TABLE 3-10**

CHEMICAL OF POTENTIAL CONCERN		CHEMICAL FREQUENCY ABSTRACT OF NUMBER DETECTION	MAXIMUM CONCENTRATION (mg/kg)	SCTL LEACHING TO GROUNDWATER ¹ (mg/kg)	BACKGROUND CONCENTRATION ² (mg/kg)	MEDIA CLEANUP STANDARD - LEACHING ³	COC BASED ON LEACHING⁴
OrganoPhos	rganoPhos Pesticides					(Subjective)	
Dimethoate 60-51-5	60-51-5	1/2	0.01	9000		9000	FIO5

Notes: SCTL - Soil Cleanup Target Level for soil leaching to groundwater - Chapter 62-777 F.A.C., April 2005

² Mayport background screening value (Tetra Tech NUS, 2000).

³ The Media Cleanup Standard (MCS) is the minimum CTL or the background screening value, whichever is greater.

⁴ A COPC is selected as a COC if the maximum concentration of that chemical exceeds the leaching MCS.
⁵ Selected as COC due to leaching but was not present in groundwater samples so eliminated as COC.

other media, it was not selected as a final COC based upon leaching. Therefore, no subsurface soil COCs were identified for AOC C.

3.2.2.2 Selection of Groundwater COCs – Human Health

Two contaminants (VC and 1,1-DCE) were identified as COPCs in groundwater at AOC C. The GCTLs for all final COPCs in groundwater were based on primary or secondary standards. No adjustments were made to the GCTLs for either of the final COPCs evaluated. The MCSs for both VC and 1,1-DCE were determined by their respective GCTLs. As shown in Table 3-11, both exceeded their respective MCSs during the human health evaluation and were identified as final groundwater COCs.

3.3 COCs IN SOIL - ECOLOGICAL

Based on the RFI findings, no ecological risk to terrestrial wildlife populations was determined to be likely due to exposure to surface soil or surface water at AOC C. The RFI stated that the industrialized nature of AOC C does not facilitate widespread ecological habitation. The ERA evaluation made the following conclusions:

- The screening-level ERA concluded that no detected chemical had a HQ greater than 1.0 in surface water or sediment, which was the only media determined to be a potential risk to ecological receptors at AOC C.
- Some inorganics and VOCs were selected as COPCs because no USEPA Region IV screening levels were available. However, a Step 3A analysis suggested that these chemicals were not present in quantities that could result in unacceptable risks.
- No further ERA or ecological risk management appears to be warranted for AOC C.

3.3.1 COC Summary

The summary list of COCs for groundwater is shown in Table 3-12. The list of locations and concentrations for all groundwater COCs exceeding their MCS is shown in Tables 3-13. A figure depicting groundwater sample locations with exceedances is provided as Figure 3-3. No COCs were identified for soil, sediment, or surface water.

AOC C CORRECTIVE MEASURES STUDY SELECTION OF GROUNDWATER COCS NAVAL STATION MAYPORT MAYPORT, FLORIDA **TABLE 3-11**

Constituents with Primary or Secondary Standards Volatile Organics 75-01-4 7/53 2.2 1 P/S 1 1 Yes Vinyl Chloride 75-35-4 8/53 14 7 P/S 1 7 1 Yes	Chemical of Potential Concern	Chemical Abstract Number	Frequency of Detectoin	Maximum Concectration (ug/L)	The same of the last of the la	Target Criteria² (P/S, HH)	GCTL 1 Criteria Adjustment (ug/L) (P/S, Divisor HH)	Adjusted GCTL (ug/L) ⁴	Background Concentration (ug/L) ⁵	Media Cleanup Standard ⁶ (ug/L)	COC ⁷ (Yes/No)
7/53 2.2 1 P/S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onstituents with Primary	or Seconda	N Standards		Don't leave the						
75-014 7/53 2.2 1 P/S 1 1 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Volatile Organics					STEEL STEEL STEEL		AND STATES	WOLFE SET OF SUPERIOR		E00-70 (0.00 (0.00)
75-35-4 8/53 14 7 P/S 1 7	nyl Chloride	75-01-4	7/53	2.2	-	P/S	-				
	1-Dichloroethene	75-35-4	8/53	14	F	2/0		 			Yes

' GCTL for direct contact with groundwater in an industrial setting, from FAC Chapter 62-777, Table I, dated April 17, 2005.

² Indicates target criteria used to determine the effects on organs and/or systems by COPC.

³ Adjustment Divisor is determined by the number of carcinogens or noncarcinogens that affect the same target organ.

* The GCTL for direct contact with groundwater in an industrial setting taken from FAC 6 2-777, Table I, was divided by the number (i.e., adj. factor) of carcinogenic COPCs or non-carcinogenic COPCs that affect the same target organ/system to account for cumulative affects.

³ Mayport background screening value (TtNUS, 2000).

^b The Media Cleanup Standard (MCS) is the minimum CTL or the background screening value, whichever is greater.

' A COPC is selected as a final COC if the maximum concentration of that chemical exceeds the MCS.

GROUNDWATER COCS - GCTLS AND FRESHWATER SURFACE WATER (COMBINED) AOC C CORRECTIVE MEASURES STUDY **NAVAL STATION MAYPORT** MAYPORT, FLORIDA **TABLE 3-12**

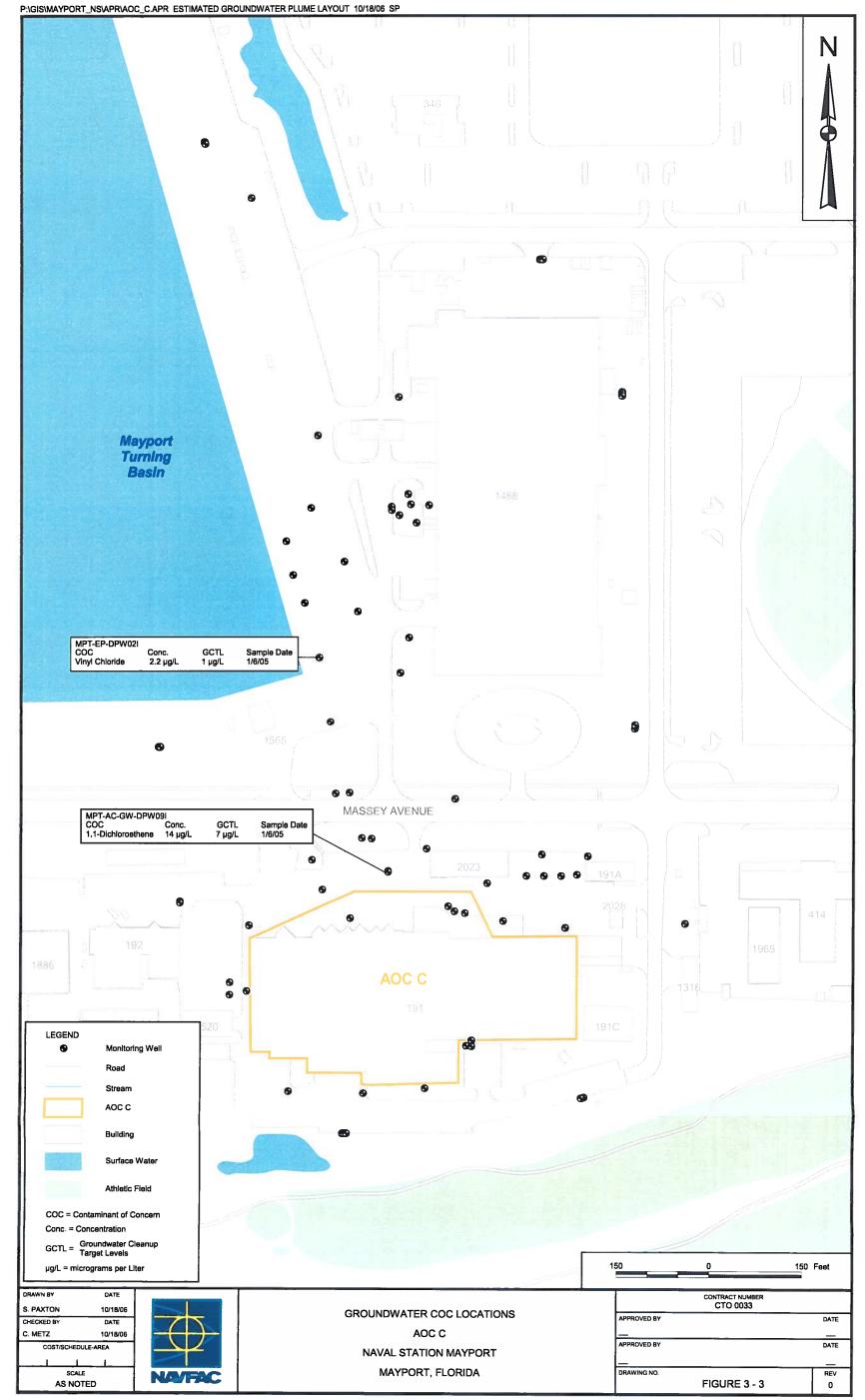
COCs Chemical Abstract Concentration Number (µg/L)							
2 75-35-4 14 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SOCS	Chemical Abstract Number	Maximum Concentration (µg/L)	Background Concentration ¹ (µg/L)	Site Specific Cleanup Standard - GCTL ² (µg/L)	Media Cleanup Standard³ (µg/L)	Media Cleanup Standard Basis
75-35-4 14 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Volatile Organics		The state of the s				
75-01-4 2.2 - 1 1	1,1-Dichloroethene	75-35-4	14		7	7	GCTL
	Vinyl Chloride	75-01-4	2.2	t	1	-	GCTL

Notes:

- 1 Mayport background concentration (Tetra Tech NUS, 2000).
- 2 The Site Specific Cleanup Standard GCTL is the Groundwater CTL or the background concentration, whichever is greater.
- 3 Media Cleanup Standard is the Minimum of the Site Specific Cleanup Standard GCTL or Site Specific Cleanup Standard Leaching to Marine Surface Water
 - 4 Media Cleanup Standard Basis is either GCTL, Freshwter Surface Water, or Background.

TABLE 3-13
COC LOCATIONS AND CONCENTRATIONS
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200	Sample ID	Sample Date	Detected Concentration	Detected Media Cleanup Concentration Standard Basis
Vinyl Chloride	MPT-EP-DPW02I	01/06/05	2.2	-
1,1-Dicholoethene	MPT-TC-DPW09I	01/06/05	14	7



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3.3.2 <u>Media Cleanup Standards</u>

MCSs establish acceptable exposure levels that are protective of human health and the environment and were estimated for AOC C using baseline assumptions and inputs. MCSs are determined based on federal and state standards, contaminants and media of interest, and exposure pathways. These calculations are based on the State of Florida CTLs (Chapter 62-777, FAC), BSVs (presented and discussed in Section 2.4 of this document) and assumptions regarding ultimate land uses. The current and future use of AOC C is for industrial purposes; therefore, the exposure pathways are to commercial/industrial workers. Specifically, MCSs are used to determine COCs, to estimate areas and volumes of impacted media, and to set performance standards for potential remedial alternatives.

Cleanup of inorganic contaminants below their established background concentrations is not required by regulation; therefore, background-screening values will be used as the lower limit for MCSs. The MCSs selection criteria are summarized below for each medium:

Groundwater

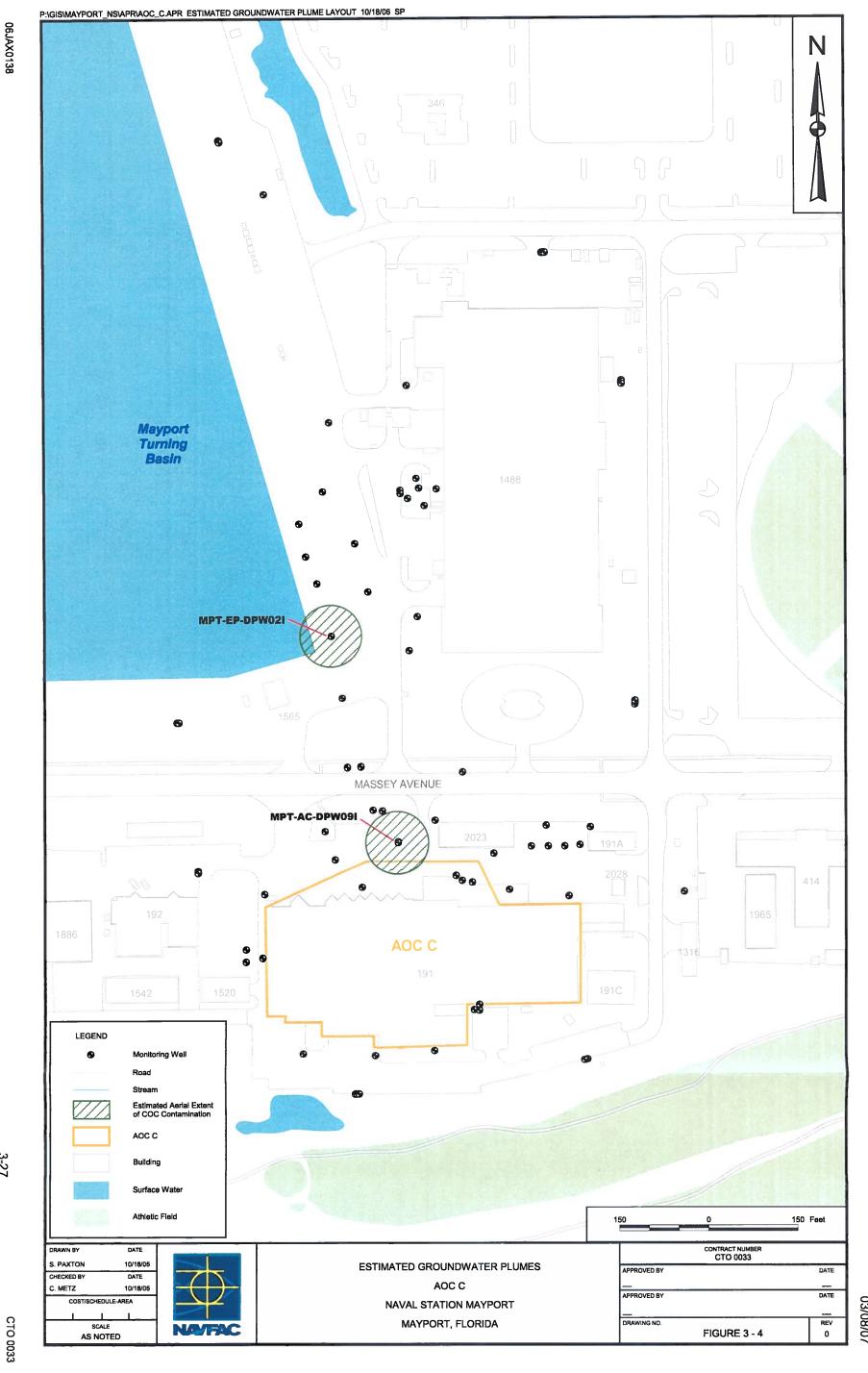
- The lower of the State of Florida Groundwater Cleanup Target Levels (GCTLs) (Chapter 62-777, FAC) for groundwater criteria and, when applicable, groundwater discharging into fresh or marine surface water criteria.
- NAVSTA Mayport BSVs will be used as the lower limit for the MCSs of inorganic COCs.

3.4 VOLUMES OF CONTAMINATED MEDIA

Estimates of contaminated media volumes are made by identifying the areas exceeding the MCSs. Groundwater analysis data were compared with the corresponding MCS only (no ecological concerns were present due to the absence of terrestrial ecological receptors). Perimeter areas surrounding the contaminated monitoring wells were also included, based on interpolation, as part of the impacted areas so that the area and volume estimates reflect adequate delineation of the contaminants.

3.4.1 <u>Volume of Groundwater</u>

A figure showing the locations of both monitoring wells (MPT-EP-DPW02I and MPT-AC-DPW09I) containing a COC concentration greater than the groundwater MCS is provided as Figure 3-4. As no COCs were detected in any other monitoring wells, it was assumed that a 50-foot radius around each of these wells would serve as a conservative estimate of the aerial extent of contamination. Plume thickness was conservatively estimated to be 20 feet (from 20 to 40 feet bgs) at both wells. Estimates of



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the pore volume of the plumes centered on MPT-EP-DPW02I and MPT-AC-DPW09I resulted in approximately 822,110 gallons (411,055 gallons/plume) of contaminated groundwater. For further information on the volume estimates of contaminated groundwater, see Appendix C.

3.5 CORRECTIVE ACTION OBJECTIVES

At AOC C, the media of concern included surface soil, subsurface soil, surface water, and groundwater. CAOs were based on the COPCs, the exposure pathway, and the present and future receptors at AOC C. Development of the CAOs considered the results of the RFI, particularly the human health risk assessments and ERAs, as well as the applicable Federal and State standards.

For this CMS, CAOs were formulated based on unacceptable human health and ecological risk that exist for direct exposure to groundwater and surface or subsurface soil based on the current and anticipated future use of the sites. Exposure scenarios for human health receptors used the Chapter 62-777, FAC, CTL criteria for residential exposure. Exposure scenarios for ecological receptors were developed in the RFI and IM reports and used ecological benchmarks consistent with current values applicable and relevant to the State of Florida.

The current use of the property at AOC C is industrial and is expected to remain industrial in the future. The current and future receptors are commercial/industrial workers and shoreline benthic aquatic receptors in the Mayport Turning Basin. Potential exposure of terrestrial ecological receptors was not considered a pathway of concern in the RFI for AOC C. Based on the current and future use receptors, the following CAOs were developed for AOC C.

Groundwater

CAO 1: Prevent ingestion of aquifer groundwater containing carcinogens in excess of the Florida GCTLs (Chapter 62-777, FAC) for groundwater criteria until CAO 3 has been met. The cumulative risk for all COCs shall not exceed an ELCR of 1.0×10^{-6} for exposure to groundwater.

CAO 2: Prevent ingestion of aquifer groundwater containing noncarcinogens in excess of the Florida GCTLs groundwater criteria until CAO 3 has been met. The HQ for each contaminant shall not exceed 1.0 for the residential/industrial exposure to groundwater. The HI (which is the sum of the HQs) shall not exceed 1.0 for exposure to groundwater.

CAO 3: Restore the groundwater aquifer to the Florida GCTLs for groundwater criteria.

4.0 IDENTIFICATION AND SCREENING OF CORRECTIVE MEASURE TECHNOLOGIES

4.1 PRELIMINARY SCREENING OF CORRECTIVE MEASURES TECHNOLOGIES

Table 4-1 identifies and provides a preliminary screening of corrective measures technologies for groundwater. This preliminary screening is conducted to eliminate those technologies that are clearly not applicable to conditions at AOC C.

The preliminary technology screening is based on overall applicability (technical implementability) to the medium of concern (groundwater), COCs (chlorinated VOCs), and conditions present at AOC C (contamination that is limited to the surficial aquifer and is low in concentration). The purpose of this screening effort is to investigate all available technologies and process options and to eliminate those obviously not applicable to the site. Table 4-2 summarizes the groundwater technologies retained from the preliminary screening.

4.2 DETAILED SCREENING OF CORRECTIVE MEASURES TECHNOLOGIES

The technologies retained from the preliminary screening are broadly evaluated in this section. The evaluations are based on criteria of effectiveness, implementability, and relative cost, which are defined as follows:

- Effectiveness This criterion focuses on the potential effectiveness of process options in protecting human health and the environment and in meeting the CAOs and MCSs. This criterion considers potential impacts to human health and the environment during construction and implementation and how proven and reliable the process is with respect to the contaminants and site conditions.
- Implementability Implementability is a measure of both the technical and administrative feasibility of implementing a technology. It provides a means of evaluating the ability of a technology to be adapted to site-specific conditions. Technical feasibility includes consideration of construction and operational issues, demonstrated performance, and adaptability to site conditions. Administrative feasibility considerations include the ability to obtain any necessary permits or easements or adherence to applicable laws and concerns of other regulatory agencies. General availability of necessary equipment and resources is also evaluated.

TABLE 4-1 PRELIMINARY SCREENING OF CORRECTIVE MEASURE TECHNOLOGIES FOR GROUNDWATER AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA PAGE 1 OF 2

General Corrective Action	Corrective Measures Technology	Technology	Description	General Screening Comments
poliui	No Action	Not Applicable	No remedial actions taken.	Retained. Will be considered for baseline comparison and for areas that have not experienced any releases of hazardous substances or for areas determined to have minimal short-term or long-term effects on groundwater quality.
Action	Land Use Controls (LUCs)	Institutional Controls	Zoning regulations in the area of groundwater contamination would involve restrictions on groundwater use and installation of new wells.	Retained. LUCs are viable and will be considered where no active corrective measures are required due to limited contamination or no elaborate corrective measure warranted and/or in combination with any technology where contaminants exceeding CMS objectives remain.
	Monitoring	Natural Attenuation	Periodic monitoring of groundwater wells in the area of potential groundwater contamination to track natural degradation of contaminants.	Retained. Natural attenuation groundwater monitoring is a viable remedial atternative for low level contamination.
		Extraction Wells	Control of plume migration by a system consisting of extraction of the contaminated groundwater.	Eliminated. No technologies are being recommended that remove the groundwater contamination from its current location and could potentially contaminate other medias or create discharge/disposal issues.
	Hydrodynamic	Collection Trench	Control of plume migration by a collection trench and extraction of the contaminated groundwater.	Eliminated. No technologies are being recommended that remove the groundwater contamination from its current location and could potentially contaminate other medias or create discharge/disposal issues.
Containment	Control	Slurry Wall	Trench around areas of contamination is filled with a soil (or cement) bentonite slurry to obstruct/divert the groundwater flow.	Eliminated. Contaminant migration is not an issue. Contamination is present at 35 feet bgs. A downward flow gradient and lack of confining unit would not obstruct/divert groundwater flow.
		Grout Curtain	Pressure injection of grout in a regular pattern of drilled holes. Requires integration with confining layer to be effective.	Eliminated. Contamination does not appear to be migrating off-site and effective confining unit is not present.
×	Subsurface Barriers	Sheet Piling	Driving interconnecting lengths of steel into the ground to form a thin, impermeable barrier. Requires integration with confining layer to be effective.	Eliminated. Contamination does not appear to be migrating off-site and effective confining unit is not present.
£		Extraction Wells	Series of pumping wells to extract contaminated groundwater.	Eliminated. No technologies are being recommended that remove the groundwater contamination from its current location and could potentially contaminate other medias or create discharge(disposal issues
Kemoval "	Extraction	Collection Trenches	Perforated pipe in trenches backfilled with porous media to collect groundwater. May include sumps and gravity drains.	Eliminated. Depth to contamination too great (35 to 45 feet bgs). No technologies are being recommended that remove the groundwater contamination from its current location and could potentially contaminate other medias or create discharged issues.
In-situ	Bioremediation	Aerobic	Degradation of organics using microorganisms in an oxygen-enriched environment.	Retained. VC and 1,1-DCE degrade effectively in aerobic environments.
reament		Anaerobic	Degradation of organics using microorganisms in an oxygen-deficient environment.	Eliminated. VC would not be effectively remediated in an anaerobic environment.

TABLE 4-1

PRELIMINARY SCREENING OF CORRECTIVE MEASURE TECHNOLOGIES FOR GROUNDWATER AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA PAGE 2 OF 2

General Corrective Action	Corrective Measures Technology	Technology	Description	General Screening Comments
In-situ Treatment	Physical / Chemical	Air Sparging	Injection of air below the water table. Rising bubbles volatilize dissolved and adsorbed phase contaminants and transport them to the vadose where they are removed by a method of collection such as vapor extraction or by in situ aerobic degradation.	Eliminated. No technologies are being recommended that remove the groundwater contamination from its current location and could potentially contaminate other medias or create discharge/disposal issues.
(continued)		Permeable Reactive Barriers (PRBs)	An in situ barrier composed of a permeable reactive material that reacts with the contaminants in the water, reducing their concentrations by physical and chemical processes.	An in situ barrier composed of a permeable reactive material that reacts with the contaminants in the water, reducing their concentrations by physical and chemical processes.

TABLE 4-2

REPRESENTATIVE GROUNDWATER CORRECTIVE MEASURE TECHNOLOGIES AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

General Corrective Action	Corrective Measures Technology	Technology	Representative Technology	Rationale
No Action	No Action	None	None	Required
LUCs	Land Use and Access Restrictions Water Use Restrictions	Institutional Controls	Fencing, Land Use Restrictions	To impose water and residential use restrictions.
Monitoring with Natural Attenuation	Natural Attenuation Monitoring	Natural Attenuation	Natural Attenuation	Monitoring would track the progress of natural attenuation until MCSs were attained.
In-situ Treatment	Aerobic Bioremediation	Microorganism degradation of organics	PermeOx® or ORC®	Stimulating microorganisms with aerobic conditions to effectively reduce organic contaminants.

Cost - Cost evaluations allow a relative comparison between similar technologies and play a limited
role in technology screening. The cost analysis is based on engineering judgment and each
technology is evaluated as to whether costs are low, medium, or high relative to the other options in
the same technology type. If there is only one process option, costs are compared to other candidate
technologies.

The process options presented in Table 4-2 for use at AOC C are evaluated in the following sections. Because the No Action option must be used as a baseline for comparison with other corrective action alternatives, it is retained.

4.2.1 <u>Limited Action</u>

Two technologies were retained from preliminary screening: LUCs and monitoring with natural attenuation.

4.2.1.1 Land Use Controls

LUCs would prevent use of the groundwater for drinking purpose until the MCSs have been met. A LUC Remedial Design, including land use restrictions, would be prepared and implemented so that, prior to

any future development of AOC C, adequate measures would be taken to minimize potentially adverse human health and environmental risks. A formal notice would be issued to the responsible agency to prevent the issue of permits for the installation of drinking water wells at AOC C. As part of LUCs, annual site inspections would be conducted to verify and enforce the continued application of these controls. Results of these annual inspections would be reported to regulatory agencies.

Effectiveness

Groundwater use restrictions would be effective in combination with source control activities. These controls would minimize potential human health risks associated with exposure to contaminated groundwater. At AOC C, soil is not the source of groundwater contamination and no other source of contamination has been identified. As such, LUCs would achieve the CAOs for AOC C.

Implementability

LUCs would be readily implementable. Federal facilities typically ensure long-term effectiveness of LUCs by implementing LUC Remedial Designs. The Navy could implement a LUC Remedial Design to ensure compliance with land use restrictions and specify other activities or controls necessary to limit exposure to contaminated groundwater at AOC C. Resources are readily available for the preparation of land use restrictions.

Cost

Costs of LUCs would be low.

Conclusion

LUCs are retained for the development of corrective measures alternatives.

4.2.1.2 Monitored Natural Attenuation

Monitored natural attenuation would consist of using sampling and analysis of groundwater in and around the VOC plumes (centered around MPT-EP-DPW02I and MPT-AC-DPW09I) to evaluate both the trends of COC concentrations and natural attenuation within the plumes and detect potential plume expansion and migration. Natural attenuation includes naturally occurring processes such as biodegradation, abiotic transformation, dispersion, and dilution that would reduce concentrations of COCs over time. To track the progress of the natural attenuation processes, groundwater samples would be regularly collected and analyzed for chlorinated VOCs and natural attenuation parameters such as oxidation/reduction potential (ORP), dissolved oxygen, pH, alkalinity, temperature, conductivity, TOC, ferrous and total iron, sulfur compounds (sulfides, sulfates), nitrogen compounds (nitrites, nitrates), orthophosphates, chloride, and metabolic gases (methane, ethane, ethene, and carbon dioxide).

Effectiveness

Naturally occurring processes could reduce groundwater contaminant concentrations over the long term. Results of the RFI confirmation sampling indicates that contaminant concentrations have decreased since the original RFI sampling to the extent that the only identified site COCs are 1,2-DCE and VC (typical chlorinated solvent metabolites). This seems to indicate that reductive dechlorination, normally one of the main pathways for natural attenuation of chlorinated VOCs, is occurring.

Groundwater monitoring would provide an effective means of evaluating the concentrations of COCs in groundwater and of assessing the rate of decrease of these concentrations. Monitoring of natural attenuation parameters would help to evaluate the conditions favorable to the natural attenuation process.

Implementability

Monitored natural attenuation would be easy to implement. Monitoring groundwater quality, restricting groundwater use, and periodic reviewing of site conditions could readily be performed, and the necessary resources are available to provide these services.

Cost

Capital and operations and maintenance (O&M) costs for monitored natural attenuation would be low.

Conclusion

Monitored natural attenuation is retained for the development of corrective measure alternatives because its implementation would provide useful information about the progress in reducing contaminants in groundwater and would be easy and inexpensive.

4.2.2 <u>In-Situ Treatment</u>

The only active treatment technology retained from the preliminary screening was in-situ bioremediation.

4.2.2.1 In-Situ Bioremediation

This technology typically consists of enhancing naturally occurring biological activity by subsurface injection of chemicals. An oxygen-release compound (ORC) such as hydrogen or magnesium peroxide would be injected into the groundwater to enhance the aerobic biodegradation of the chlorinated VOC metabolites. Typically, injection is implemented by direct push technology (DPT), but existing and/or new monitoring wells can also be used for this purpose. If necessary, initial injection is followed by a periodic maintenance dosage(s).

Effectiveness

In-situ bioremediation with an ORC injection is fairly well proven for the removal of the chlorinated VOCs 1,1-DCE and VC. The technology is reliable, with minimum effects on human health and the environment. This technology would therefore be well suited to the treatment of the AOC C groundwater plumes.

Implementability

In-situ bioremediation could be readily implemented. Qualified contractors are available for the implementation of this technology. This technology typically requires subsurface injection of chemicals at multiple points to create a grid that covers a contaminant plume. DPT has proven to be the most practical and economical means of installing this multiplicity of injection points.

Cost

Capital and O&M costs for in-situ bioremediation would be low to moderate.

Conclusion

In-situ bioremediation with an ORC injection is retained for the development of corrective measures alternatives.

4.3 DEVELOPMENT OF CORRECTIVE MEASURES ALTERNATIVES

Based on the technology screening presented in Sections 4.1 and 4.2, the following technologies and process options were retained for use at AOC C:

- No Action
- Limited Action: LUCs and Monitored Natural Attenuation
- In-Situ Treatment: In-Situ Bioremediation (aerobic)

Using these technologies, the following three corrective measures alternatives were developed:

- Alternative 1: No Action
- Alternative 2: Monitored Natural Attenuation and LUCs
- Alternative 3: In-Situ Bioremediation, LUCs, and Monitoring

The following sections outline the components of each of the corrective measures alternatives to address the contaminated groundwater at AOC C.

4.3.1 Alternative 1: No Action

The No Action alternative maintains the site as is. This alternative does not address the groundwater contamination and is retained to provide a baseline for comparison to other alternatives. There would be no reduction in toxicity, mobility, or volume of the contaminants other than what would result from natural dispersion, dilution, biodegradation, and other attenuating factors. Existing monitoring programs and institutional controls would be discontinued and the site would be available for unrestricted use.

4.3.2 <u>Alternative 2: Monitored Natural Attenuation and Land Use Controls</u>

Alternative 2 would consist of two major components: (1) monitored natural attenuation and (2) LUCs.

4.3.2.1 Component 1: Monitored Natural Attenuation

Natural attenuation would rely on naturally occurring processes to significantly reduce the concentrations of chlorinated VOCs. These processes include a combination of biodegradation, dispersion, dilution, and adsorption in various proportions depending on the type of contaminant and aquifer conditions. Aquifer conditions would be continually monitored to ensure that they are favorable and to verify that concentrations of COCs are being adequately reduced.

Monitoring would consist of regularly collecting and analyzing groundwater samples in and around the two plumes centered on monitoring wells MPT-EP-DPW02I and MPT-AC-DPW09I.

Monitoring would take place over a period of 30 years or until the MSCs are consistently achieved and consists of collecting groundwater samples from eight existing monitoring wells. Monitoring of eight wells would occur for 30 years (on a quarterly basis for year 1, semi-annually for years 2 - 5, and annually for years 6 - 30) and the collected groundwater samples analyzed for VOCs. In addition, during the first 5 years, samples would also be analyzed for natural attenuation indicator parameters, such as ORP, dissolved oxygen, pH, alkalinity, temperature, conductivity, TOC, ferrous and total iron, sulfur compounds (sulfates, sulfides), nitrogen compounds (nitrates, nitrites), orthophosphates, chlorides, and metabolic gases (methane, ethane, ethene, and carbon dioxide). Wells would only be removed from monitoring if two consecutive monitoring events showed that no COCs exceeded MSCs. If all wells are removed from the monitoring program due to no COCs exceeding MSCs, the monitoring program will be stopped and NFA will be recommended for groundwater. The eight monitoring wells to be sampled as part of a monitoring program are MPT-EP-DPW02I. MPT-AC-GW-DPW09I. MPT-AC-GW-DPW09D,

MPT-TC-DPW02I, MPT-TC-DPT09I, MPT-TC-DPW11I, MPT-TC-DPW12I, and MPT-TC-DPW04SID. The monitoring well locations are shown on Figure 2-4.

Regulatory reviews would be performed every 5 years on the monitoring data to evaluate site status, to assess the continued adequacy of remedial activities, and to determine whether further action is necessary.

4.3.2.2 Component 2: Land Use Controls

LUCs would prohibit aquifer use for drinking purposes until the MCSs have been met. A LUC Remedial Design, including land use restrictions, would be prepared and implemented so that, prior to any future development of AOC C, adequate measures would be taken to minimize potentially adverse human health and environmental risks. As part of institutional controls, annual site inspections would be conducted to verify and enforce the continued application of these controls. Results of these annual inspections would be reported to regulatory agencies.

4.3.3 Alternative 3: In-Situ Bioremediation, Land Use Controls, and Monitoring

Alternative 3 would consist of three major components: (1) in-situ bioremediation with an ORC injection, (2) LUCs, and (3) monitoring.

4.3.3.1 Component 1: In-situ Bioremediation

In-situ bioremediation would consist of using an ORC injection to enhance the growth of indigenous microorganisms and to augment the natural biodegradation of chlorinated VOCs. An ORC would be injected into the contaminated groundwater area using DPT. Based upon experience with similar applications, it is assumed that 20 DPT injection points (10 within each of the plumes) would be installed to a depth of 45 feet bgs and that ORC would be injected at the rate of 2 pounds per foot of depth in the 25- to 45-foot bgs interval, for a total application use of 800 pounds. Additional injections might be required to deal with residual contamination that might rebound after the initial injection. However, for the purposes of this CMS, it is assumed that a single ORC application would be required. The exact design of the treatment system would be verified through treatability testing prior to implementation.

4.3.3.2 Component 2: Land Use Controls

This component would be identical to Component 2 of Alternative 2.

4.3.3.3 Component 3: Monitoring

This component would be similar to the monitoring program outlined in Component 1 of Alternative 2, except that it would only last an estimated 5 years. Sampling would be conducted quarterly during year 1, semi-annually during years 2 and 3, and annually for the remaining 2 years.

At the end of 5 years, a review would be performed to evaluate site status, to assess the continued adequacy of remedial activities, and to determine whether further action is necessary.

5.0 EVALUATION OF CORRECTIVE MEASURES ALTERNATIVES

The identified corrective measures alternatives are evaluated using the following criteria contained in the Final RCRA Corrective Action Plan (USEPA, 1994):

The alternatives are evaluated against the standards listed below:

- 1. Protect human health and the environment.
- 2. Attain MCSs set by the implementing agency.
- 3. Control the source of releases.
- 4. Comply with any applicable standards for management of wastes.
- 5. Other factors -
 - Long-term reliability and effectiveness
 - Reduction in toxicity, mobility, or volume of wastes
 - Short-term effectiveness
 - Implementability
 - Cost

The criteria and elements for the above standards to be used for the detailed analysis of alternatives are described below.

Protect Human Health and the Environment

Corrective action remedies must be protective of human health and the environment. Remedies may include those measures that are needed to be protective, but are not directly related to media cleanup, source control, or management of wastes. A discussion of what types of short-term remedies are appropriate for the site and how various corrective measure alternatives meet this standard should be presented.

Attain Media Cleanup Standards Set by the Implementing Agency

Remedies will be required to attain MCSs set by the implementing agency that may be derived from existing state or federal regulations or other standards. Provide the necessary information to address whether the potential corrective action will achieve the preliminary remediation objective as defined by the implementing agency as well as other, alternative remediation objectives that may be proposed to attain the MCSs.

Control the Sources of Releases

A critical objective of any corrective action must be to stop further environmental degradation by controlling or eliminating further releases that may pose a threat to human health and the environment. The source control standard is not intended to mandate a specific corrective action or class of corrective actions. Instead, a wide range of options should be examined. This standard should not be interpreted to preclude the equal consideration of using other protective remedies to control the source, such as partial waste removal, capping, slurry walls, in-situ treatment/stabilization or consolidation. As part of the CMS, the issue of whether source control measures are necessary should be addressed, and, if so, the type of actions that would be appropriate should be outlined. Any source control measure proposed should include a discussion on how well the method is anticipated to work given the particular situation at the facility and the known track record of the specific technology.

Comply with any Applicable Standards for Management of Wastes

A discussion of how the specific waste management activities will be conducted in compliance with all applicable Federal or State regulations [e.g., closure requirements and land disposal restrictions (LDRs)] should be presented.

Other Factors

Five general factors represent a combination of technical measures and management controls for addressing the environmental problems at the facility. These factors will be considered as appropriate by the implementing agency in selecting/approving a corrective action that meets the four standards listed above. The five general decision factors and relevant information that may be requested are as follows:

Long-Term Reliability and Effectiveness - Demonstrated and expected reliability is a way of assessing the risk and effect of failure. Consideration should be given as to whether the technology or a combination of technologies have been used effectively under analogous site conditions, whether failure of any one technology in the alternative would have an immediate impact on receptors, and whether the alternative would have the flexibility to deal with uncontrollable changes at the site (e.g., heavy rainstorms, earthquakes). Each corrective measure alternative should be evaluated in terms of the projected useful life of the overall alternative and of its component technologies.

Reduction in the Toxicity, Mobility, or Volume of Wastes - As a general goal, remedies will be preferred that are capable of eliminating or substantially reducing the inherent potential for the contaminants to cause future environmental releases or other risks to human health and the environment. However, there may be some situations where substantial reductions in toxicity, mobility, or volume may not be practicable or even desirable. Estimates of how much the corrective measure alternatives will reduce the waste toxicity, volume, and/or mobility may be helpful in applying this factor. This may be done through a comparison of initial site conditions to expected post-corrective measure conditions.

Short-Term Effectiveness - Short-term effectiveness may be particularly relevant when remedial alternatives will be conducted in densely populated areas, or where waste characteristics are such that risks to workers or to the environment are high and special protective measures are needed. Possible factors to consider include fire, explosion, exposure to hazardous substances, and potential threats associated with treatment, excavation, transportation, and redisposal or containment of waste material.

Implementability - Implementability will often be a determining variable in shaping remedies. Some technologies will require state or local approvals prior to construction and there may be some restrictions or concerns for certain remedial approaches. Typical factors to be considered include administrative activities (e.g., permits, right of way, offsite approvals) and the time these activities will take; constructability of the remedial measure and time for beneficial results, availability of off-site treatment, storage, and disposal facility services; and availability of prospective technology.

Cost - The relative cost of a corrective action may be an appropriate consideration, especially in those situations where several different technical alternatives to remediation will offer equivalent protection of human health and the environment. Cost estimates could include costs for engineering, site preparation, construction, materials, labor, sampling/analysis, waste management/disposal, permitting, health and safety measures, training, O&M, etc.

5.1 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES ALTERNATIVES

The identified corrective measure alternatives are evaluated using the criteria described in Section 5.0.

5.1.1 Alternative 1: No Action

Protect Human Health and the Environment

No Action would allow unacceptable risks to human health and the environment. The No Action alternative would do nothing to effectively address contaminated groundwater or control its potential migration to off-site areas.

Attain Media Cleanup Standards

No Action would not confirm if MCSs were ever achieved. Natural attenuation may eventually reduce low concentrations of COCs to acceptable levels, but the progress of attenuation would not be monitored.

Control the Source of Releases

No Action would not control or eliminate the source of contamination. Natural attenuation may eventually eliminate the source; however, the potential progress of natural attenuation would not be monitored.

Comply with any Applicable Standards for Management of Wastes

No Action would not involve any waste management activities. Therefore, no standards for management of wastes would apply.

Other Factors

Long-Term Reliability and Effectiveness - The No Action alternative would not provide long-term reliability and effectiveness. Contaminants could continue to migrate and might pose a long-term risk to human health and the environment. Aside from the potential reduction of contamination through natural attenuation, this alternative would offer no reduction in risk over long periods of time.

Reduction in the Toxicity, Mobility, or Volume of Wastes - Reduction of toxicity, mobility, or volume would potentially occur but only through natural processes. Natural biodegradation would not be documented in the absence of monitoring, and contaminated groundwater could potentially migrate off-site.

Short-Term Effectiveness - The No Action alternative would not include any construction or remedial implementation, so there would be no short-term risks to workers, the community, or the environment from these activities. Neither the public nor the workers would be exposed to potential threats associated with construction or transportation.

Implementability - No technical implementability issues would exist because no corrective action would occur. Once the alternative was approved, there would be no administrative issues and no need to coordinate with other agencies or acquire permits. Future remedial actions, if needed, would not be hindered by the No Action alternative.

Cost - No corrective action would occur; therefore, there would be no costs.

5.1.2 <u>Alternative 2: LUCs and Monitored Natural Attenuation</u>

Protect Human Health and the Environment

LUCs would effectively prevent direct human contact with contaminated groundwater by controlling the access to and preventing the withdrawal of contaminated groundwater. Monitoring would ensure that no new potable groundwater wells would be installed and that restrictions on land use would be in place, and would assess the progress of natural attenuation and groundwater quality. No COC migration has been observed at this site to date and the implementation of monitoring would verify that no migration of contaminants is occurring. Over a period of time the concentrations of COCs in groundwater would reach levels that would be protective to human health and the environment through natural attenuation.

Attain Media Cleanup Standards

Alternative 2 would attain the groundwater MCSs over time. Natural processes would reduce low concentrations of COCs to acceptable levels, which would be indicated by the monitoring. The FDEP has established natural attenuation default source concentrations (NADSCs) for groundwater contaminants. Contaminant concentrations that do not exceed the FDEP NADSC value are permitted to enter into a monitored natural attenuation program. The existing concentrations of COCs at AOC C fall within the FDEP acceptable NADSC values that provide adequate protection of human health.

Control the Source of Releases

LUCs would not control or eliminate the source of contamination. Monitored natural attenuation would remove the contaminant source over time principally through biodegradation, and the degradation progress would be monitored.

Comply with any Applicable Standards for Management of Wastes

LUCs and monitored natural attenuation would not involve any waste management activities other than disposal of sampled water that would be disposed of following applicable standards. No other standards for management of wastes would apply.

Other Factors

Long-Term Reliability and Effectiveness - LUCs would effectively prevent exposure to groundwater until the MCSs have been met. Natural attenuation would offer reduction in risk over a period of time; the progress of which would be monitored. Monitoring is effective in tracking reduction in contaminant concentrations. Monitoring would also be effective to verify the continued lack of significant migration of COCs.

Reduction in the Toxicity, Mobility, or Volume of Wastes - Alternative 2 would reduce the toxicity and volume through natural attenuation processes, principally biodegradation.

Short-Term Effectiveness - Alternative 2 would involve sampling groundwater monitoring wells. The minimal short-term risks to workers and the environment would be manageable using the appropriate controls. Implementation of this alternative would not pose any safety concerns to nearby communities, the environment, or on-site workers. On-site workers would be protected from exposure to hazardous substances through the following of health and safety procedures mandated by the Occupational Safety and Health Act (OSHA), including appropriate use of personal protective equipment (PPE).

Implementability - Alternative 2 would be readily implementable. Monitoring would require periodic sampling, maintenance of existing site wells, and the potential installation of new monitoring wells. Materials and labor would be readily available for the periodic sampling. Administrative issues and coordination with other agencies or acquiring permits would be easily achievable. Future remedial actions, if needed, would not be hindered by this alternative.

Cost - The following costs are estimated for Alternative 2:

Capital Costs:

\$18,000

O&M Costs:

\$0

Monitoring Costs:

\$24,000 for Year 1

\$14,000/year for Years 2 through 5 plus \$10,000 for a site review at Year 5

\$10,000/year for Years 6 through 30 plus \$10,000 for a site review at Years 10, 15,

20, 25, and 30

30-Year NPW:

\$263,000

Detailed cost estimates are provided in Appendix D.

5.1.3 <u>Alternative 3: In-Situ Bioremediation, LUCs, and Monitoring</u>

Protection of Human Health and the Environment

Alternative 3 would be protective of human health and the environment by accelerating naturally occurring processes through active treatment of contaminated groundwater at AOC C. In-situ injection of an ORC in the contaminant plume would effectively enhance the biodegradation of chlorinated VOCs. Groundwater monitoring would be conducted to determine the effectiveness of this alternative. Groundwater use would be restricted to prevent exposure to contaminated groundwater until MCSs have been met.

Attainment of MCSs

Past experience with remediation of chlorinated VOCs with an ORC injection indicates that Alternative 3 would likely meet MCSs in the AOC C groundwater within 5 years.

Source Control

The site screening investigations concluded that soil is not a source of groundwater contamination. In addition, Alternative 3 would actively promote the in-situ biodegradation of the AOC C contaminant plumes and thus reduce the most likely source of potential COC migration.

Compliance with Waste Management Standards

Alternative 3 would not generate any treatment residues. However, the installation of injection points and periodic sampling activities would generate some residues (e.g., decontamination water, purge water) that would have to be disposed appropriately. The volume of residues generated would be small and waste management regulations would be easily met.

Other Factors

Long-Term Reliability and Effectiveness - Alternative 3 would be effective because in-situ bioremediation is a well-demonstrated technology for the removal of chlorinated VOCs from groundwater. Groundwater monitoring would effectively evaluate the progress of remediation, and institutional controls would effectively prevent risk from exposure to contaminated groundwater until the MCSs have been met. Multiple injections of ORC may be required to maintain effectiveness of the in-situ biodegradation process.

Alternative 3 would achieve CAOs. Institutional controls would prevent exposure to contaminated groundwater. In-situ bioremediation would restore groundwater quality and ultimately reduce COC concentrations to less than MCSs.

Reduction in Toxicity, Mobility, and Volume - Alternative 3 would reduce the toxicity, mobility, and volume of COCs through active treatment of contaminated groundwater.

Short-Term Effectiveness - The short-term impact of Alternative 3 would be minimal. Site workers would receive site-specific health and safety training and wear appropriate PPE. Implementation of this alternative would not result in any threat to the surrounding community or ecological receptors.

Implementability - Alternative 3 would be implementable. The resources, equipment, and materials necessary for the installation of an ORC injection are readily available.

This alternative could be implemented within approximately 6 months. Past experience with ORC remediation of chlorinated VOCs plumes at similar sites indicates that groundwater MCSs would be met within an estimated 5 years.

Cost Analysis - The following costs are estimated for Alternative 3:

Capital Costs:

\$128,000

O&M Costs:

\$0

Monitoring Costs:

\$81,000 for Year 1

\$41,000 for Years 2 and 3

\$26,000 for Year 4

\$38,000 plus \$10,000 for site review for Year 5

5-Year NPW:

\$319,000

Detailed cost estimates are provided in Appendix D.

6.0 COMPARATIVE ANALYSIS AND RECOMMENDATION

The following sections provide a comparative analysis of the three corrective measures alternatives using the same criteria that were used to evaluate the alternatives in Section 5.0.

6.1 PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

Alternative 1 would not be sufficiently protective of human health and the environment. Alternative 2 would provide adequate protection of human health and the environment. Alternatives 3 would be more protective than Alternative 2 by significantly accelerating the removal of chlorinated VOCs from AOC C groundwater.

Alternatives 2 and 3 include LUCs to prevent use of AOC C groundwater as a drinking water source and groundwater monitoring to examine the concentrations and migration of site COCs. The potential for off-site migration is greater under Alternatives 1 and 2 than Alternative 3.

6.2 ATTAINMENT OF MCSs

Alternatives 1 and 2 might eventually attain MCSs through naturally occurring processes, but this would only be verified through monitoring in Alternative 2.

Alternatives 3 would attain MCSs for chlorinated VOCs at AOC C before Alternatives 1 and 2. With Alternatives 2 and 3, attainment of the MCSs would be verified through groundwater monitoring.

6.3 SOURCE CONTROL

The site screening investigations concluded that the soil is not a source of groundwater contamination. The exact source of the groundwater contamination is unknown but previous monitoring has shown it is not migrating. Alternatives 1 and 2 would not provide any source control. Alternatives 3 would provide source control through active treatment of the contaminated groundwater.

6.4 COMPLIANCE WITH WASTE MANAGEMENT STANDARDS

Alternative 1 would not generate any waste material. Alternatives 2 and 3 would not generate any treatment residues and would generate a minimal amount of waste materials associated with groundwater monitoring activities (e.g., purge water). Permitted off-site facilities would be readily available for the disposal of the waste materials generated by Alternatives 2 and 3.

6.5 OTHER FACTORS

6.5.1 <u>Long-Term Reliability and Effectiveness</u>

Alternative 1 would not be effective and reliable. Alternative 2 would effectively remove COCs through naturally occurring processes. Alternatives 3 would be more effective than Alternative 2 because the removal of chlorinated VOCs would be significantly accelerated through in-situ biodegradation. The institutional controls component of Alternatives 2 and 3 would effectively prevent exposure to contaminated groundwater until the groundwater MCSs have been achieved.

6.5.2 Reduction in Toxicity, Mobility, and Volume

Alternatives 1 and 2 would not reduce the toxicity, mobility, or volume of COCs through treatment, but some reduction of toxicity and volume might be achieved through naturally occurring processes. Alternatives 3 would reduce the toxicity, mobility, and volume of COCs through active in-situ biodegradation.

6.5.3 Short-Term Effectiveness

Alternative 1 would not result in any short-term risks to human health or the environment. Alternatives 2 and 3 would result in minimal short-term risks to groundwater monitoring personnel. These risks would be addressed through health and safety training and the wearing of appropriate PPE.

6.5.4 <u>Implementability</u>

Alternative 1 would be the easiest to implement because no action would be needed.

The groundwater monitoring and LUCs components of Alternative 2 would be very easy to implement. LUCs would be readily implementable through a LUC RD because AOC C is located within a government-owned facility where such controls are easier to enforce.

Alternative 3 would be somewhat more difficult to implement than Alternative 2. In addition to the same monitoring and institutional controls as Alternative 2, it would require the installation of ORC injection points (via DPT). Contractors and equipment are readily available for implementing the technologies included in the in-situ biodegradation process. Installation of the Alternative 3 ORC injection points (via DPT) would be relatively simple, but utility clearance and coordination with operations conducted within AOC C would be required. Alternative 3 would require approximately 6 months for design and corrective action installation.

6.5.5 Cost

The estimated capital and O&M costs and NPW are presented in Table 6-1. The capital cost of Alternative 2 is \$18,000 compared with \$128,000 for Alternative 3. There are no O&M costs associated with Alternatives 2 and 3. Monitoring costs for Alternative 2 are \$24,000 for Year 1, \$14,000 per year for Years 2 through 5, and \$10,000 per year thereafter. Monitoring costs for Alternative 3 is \$81,000 for Year 1, \$41,000 for Years 2 and 3, and \$26,000 for Years 4 and 5. The cost of site reviews is \$10,000 for all alternatives. The NPW of Alternatives 2 and 3 are \$263,000 and \$319,000, respectively. Detailed costs are provided in Appendix D.

6.6 RECOMMENDED CORRECTIVE MEASURE

Alternative 2 is recommended for use at AOC C. The LUCs and monitoring associated with this alternative will provide adequate protection of human health and the environment. Alternative 2 will be easy to implement and will have little affect on current operations conducted with AOC C. Groundwater data for AOC C indicate that natural attenuation of the VOC plumes is currently occurring. Currently, only 1,1-DCE and VC are present in the groundwater and their concentrations only slightly exceed their respective MSCs. After 5 years of groundwater monitoring, a formal site review would be performed to verify the effectiveness of naturally occurring processes. If, at that time, it is determined that these processes are not sufficient to restore groundwater quality or if the contaminant plumes are shown to be migrating, a more active corrective action such as Alternative 3, would be considered. Although the effectiveness and cost of Alternative 3 is comparable, Alternative 2 would be simpler to implement and have a significantly lower capital cost. If naturally occurring processes continue to occur, Alternative 2 will likely reach its remediation goals prior to the 30 years used in the cost analysis. A more reasonable remediation time frame for Alternative 2 is estimated to be 15 years.

TABLE 6-1 COSTS FOR GROUNDWATER ALTERNATIVES AOC C CORRECTIVE MEASURES STUDY NAVAL STATION MAYPORT MAYPORT, FLORIDA

Alternative	Capital Costs	O&M Costs	Monitoring Costs	Total Present Worth Costs ¹
1	\$0	\$0	\$0	\$0
2	\$18,000	\$0	Year 1 \$24,000 Years 2-5 \$14,000/year Years 6-30 \$10,000/year	\$263,000
3	\$128,000	\$0	Year 1 \$81,000 Years 2-3 \$41,000 Year 4 \$26,000 Years 5 \$38,000	\$319,000

Notes:

1 Includes cost for 5-year site reviews

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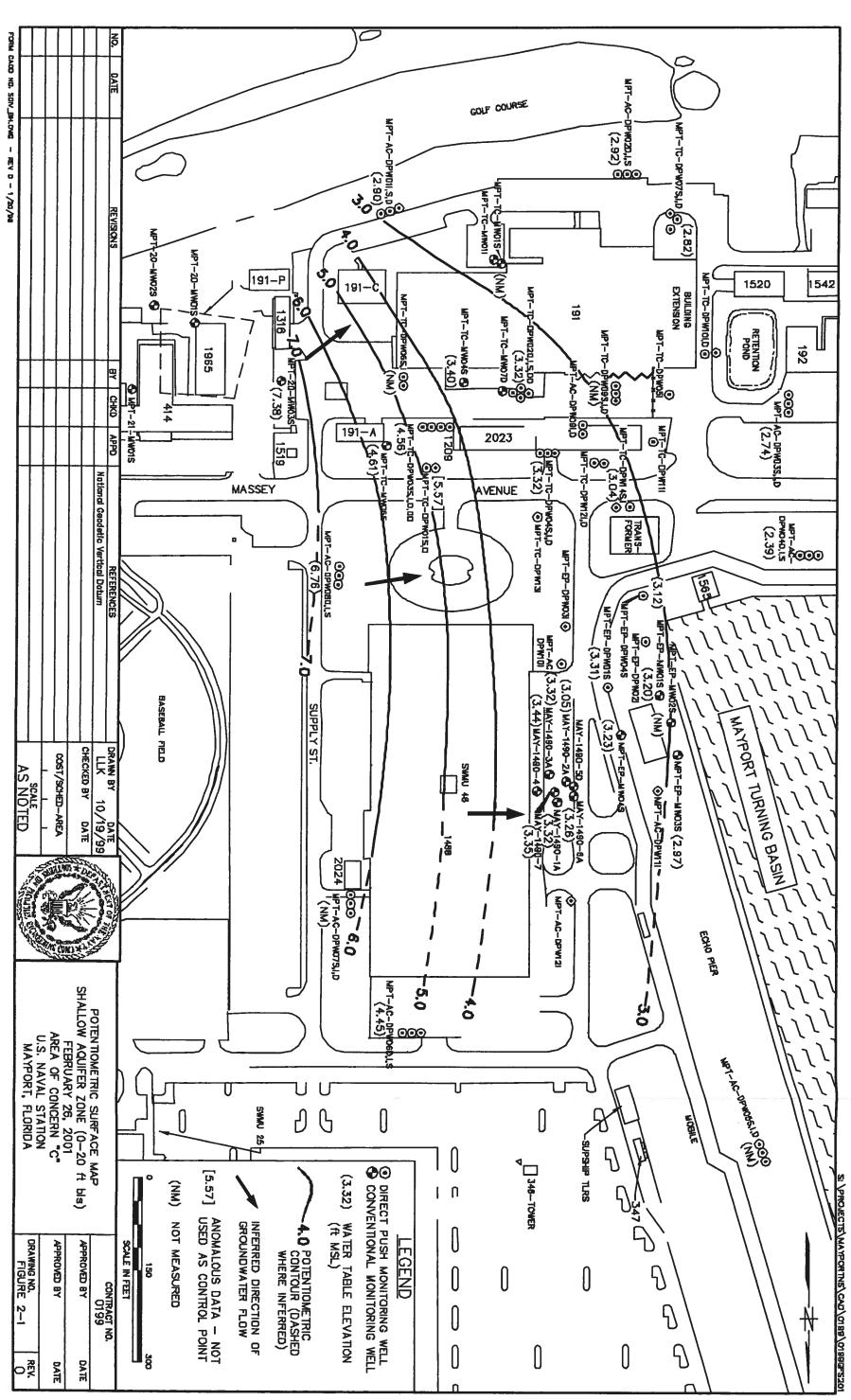
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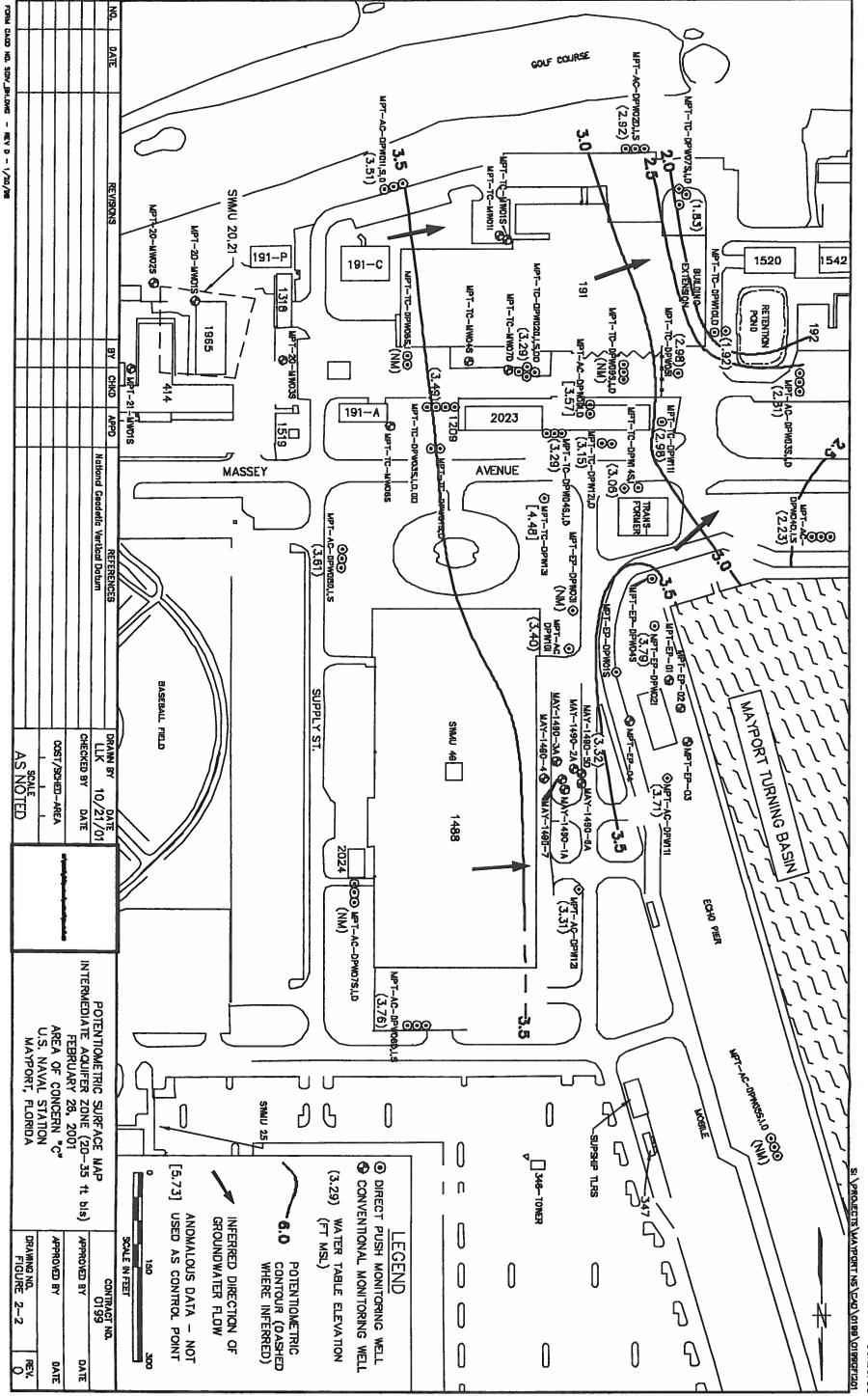
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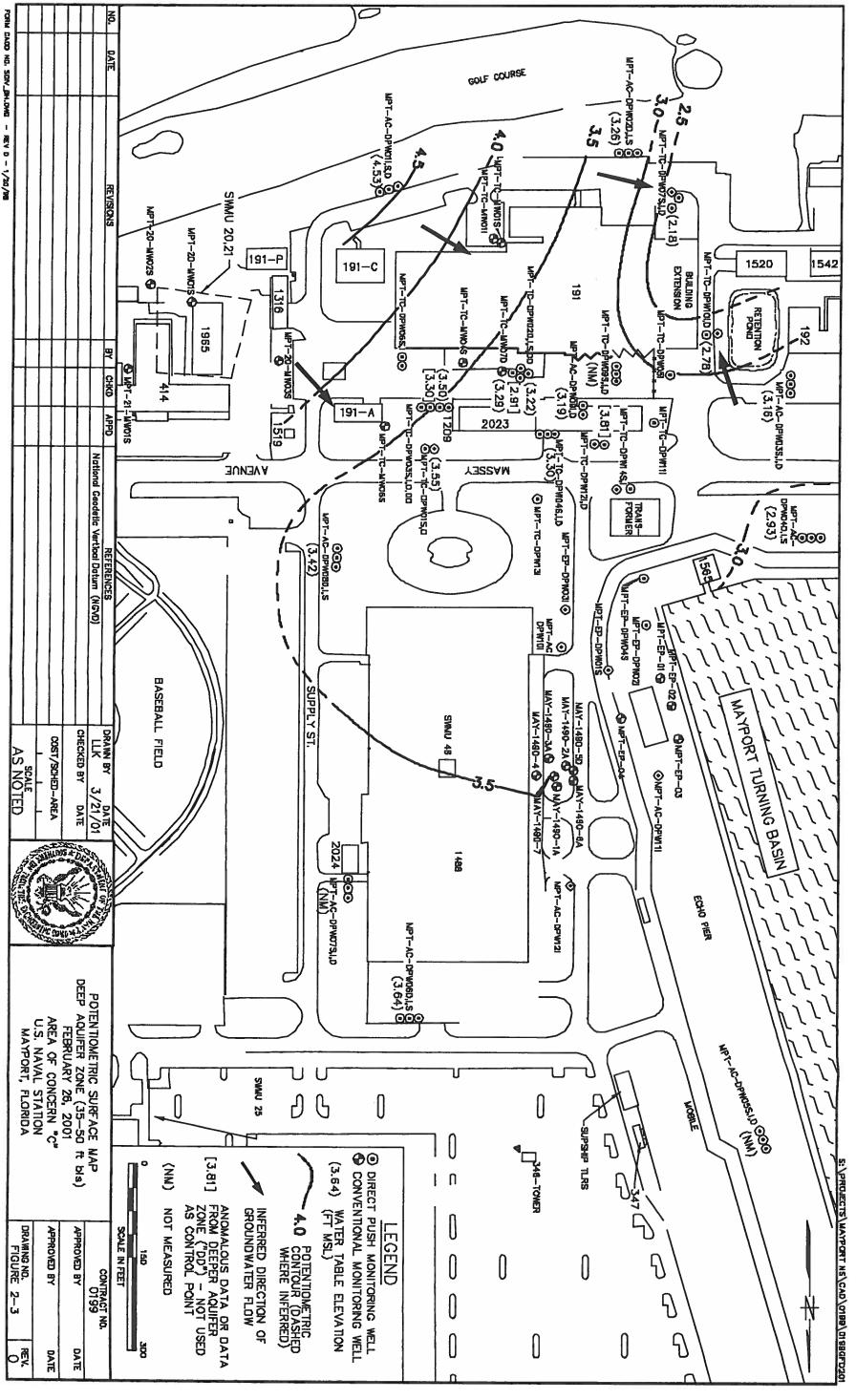
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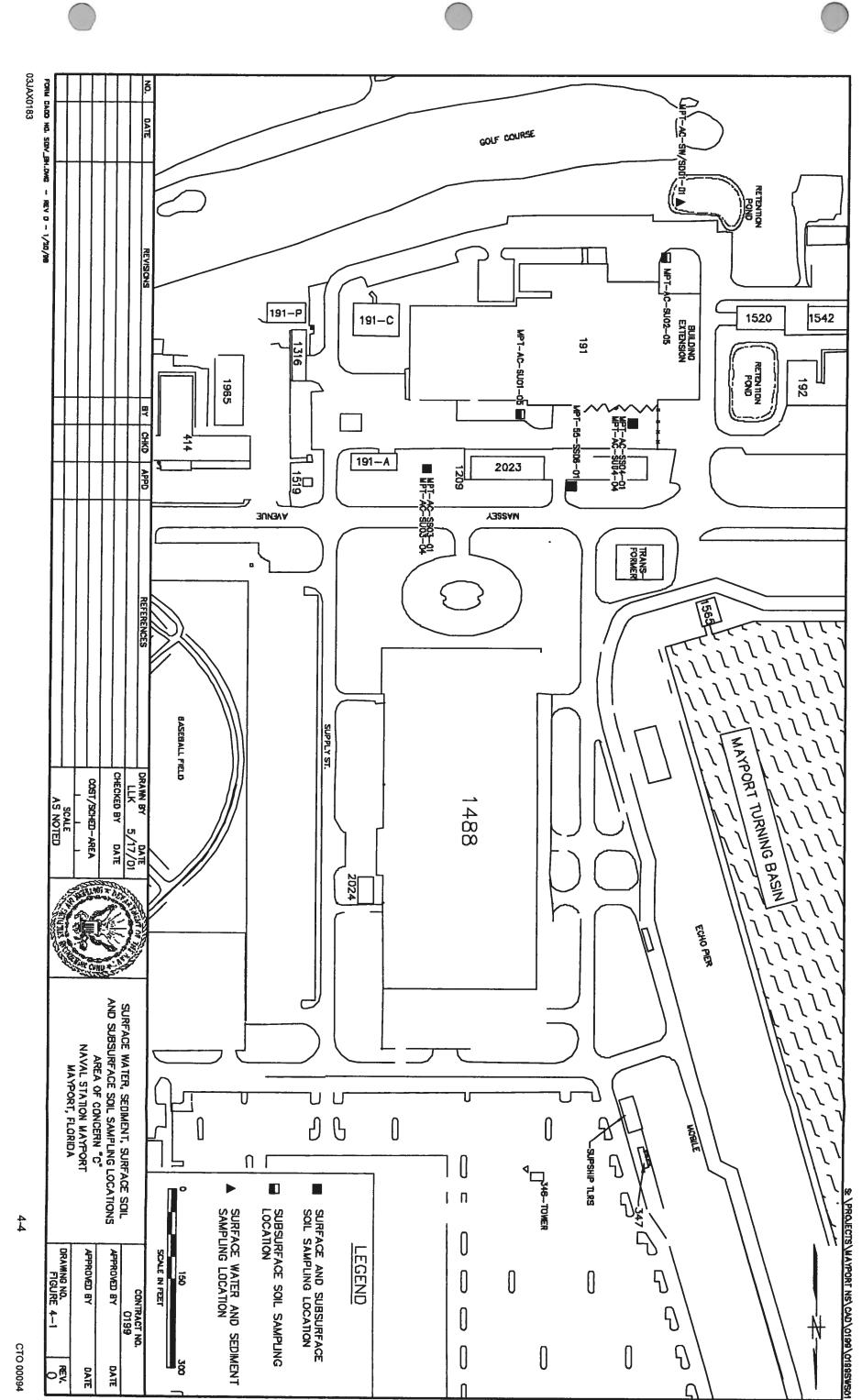
APPENDIX A HISTORICAL INFORMATION





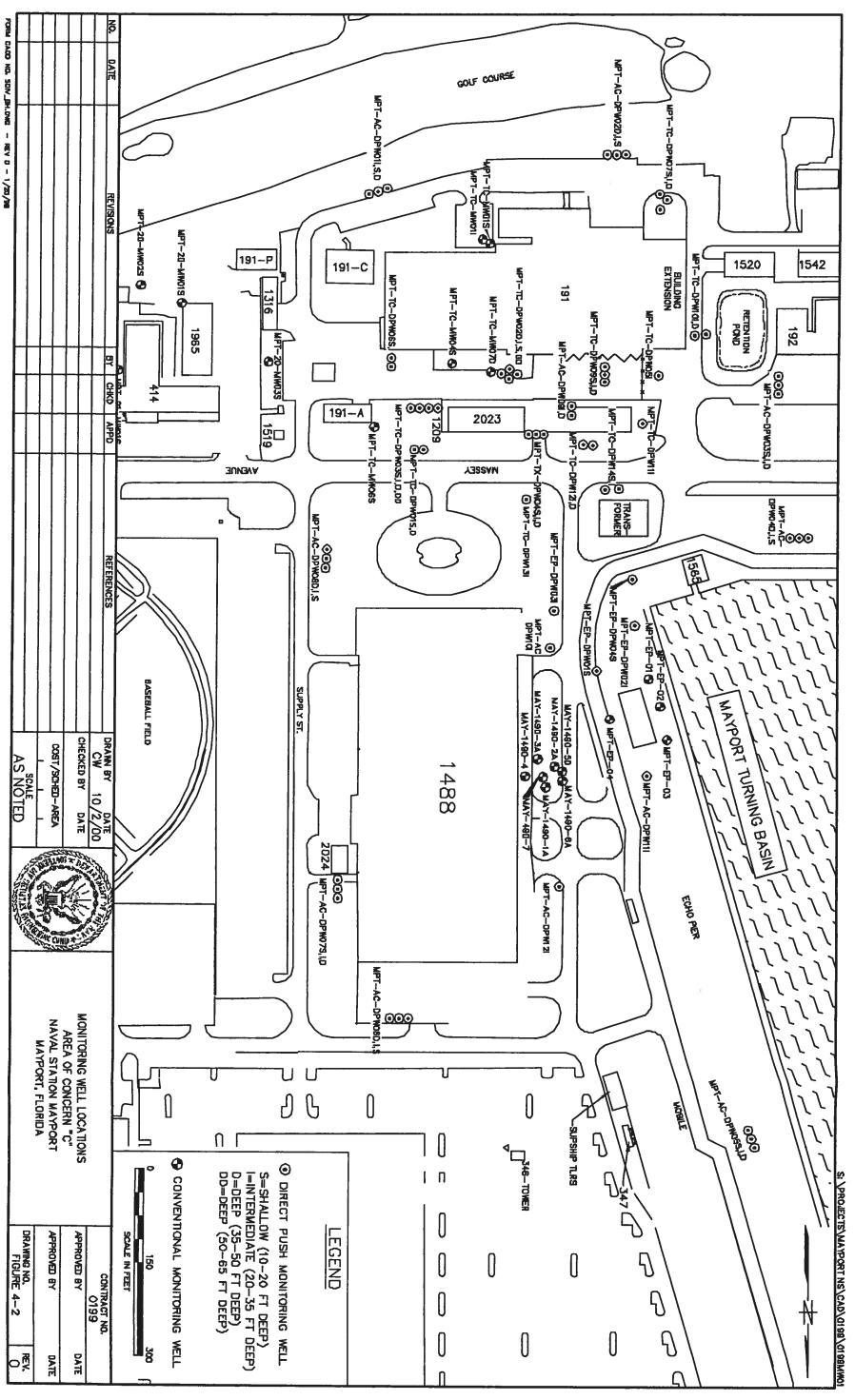








CTO 00094



APPENDIX B CMS DATA SET



75-35-4 1,1-Dichloroethene

IB VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-TC-DPW07D

Lab Name:	ACCURA ANAL	YTICAL LAB	Contract:	CTO #0194 / N2877
Lab Code:	ACCURA		SAS NO.:	
Case No.:	<u>7458</u>		SDG NO.:	
Matrix (soil/water):	WATER		Lab Sample Id:	7458-001
Sample wt/vol:	25.00	(g/mL) ML	Lab File ID:	J011405\J15020
Level (low/med):	LOW		Date Received:	01/07/05
% Moisture: not dec		_	Date Analyzed:	01/14/05
GC Column:	ZB-624	ID: <u>.25</u> (mm)	Dilution Factor:	1.0
Soil Extract Volume	-	(μ L)	Soil Aliquot Volume	
		,	CONCENTRATION	UNITS (ug/L or ug/Kg) ug/L
CAS NO.		COMPOUND		

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1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MPT-TC-DPW02D

				1 L	J
Lab Name:	ACCURA ANAL	YTICAL LAB	Contract:	CTO #0194 / N2877	
Lab Code:	ACCURA		SAS NO. :		
Case No.:	<u>7458</u>		SDG NO.:		
Matrix (soil/water):	WATER		Lab Sample Id:	7458-003	
Sample wt/vol:	25.00	(g/mL) ML	Lab File ID:	J011405\J15021	
Level (low/med):	LOW		Date Received:	01/07/05	
% Moisture: not dec.			Date Analyzed:	01/14/05	
GC Column:	ZB-624	ID: <u>.25</u> (mm)	Dilution Factor:	1.0	
Soil Extract Volume		- ^(μ L)	Soil Aliquot Volume:		(μ L)
CASNO			CONCENTRATION U	JNITS (ug/L or ug/Kg) ug/L	·· ·

CAS NO. COMPOUND Q 75-35-4 1,1-Dichloroethene 7 0.50 I 540-59-0 1,2-Dichloroethene (total) 22 79-01-6 Trichloroethene 3 1.5 75-01-4 Vinyl Chloride 1.0 U

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75-01-4 Vinyl Chloride

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-TC-DPW09I

0.35

			1
Lab Name:	ACCURA ANALYTICAL LAB	Contract:	CTO #0194 / N2877
Lab Code:	ACCURA	SAS NO. :	
Case No.:	7458	SDG NO.:	
Matrix (soil/water):	WATER	Lab Sample Id:	7458-004
Sample wt/vol:	25.00 (g/mL) <u>ML</u>	Lab File ID:	<u>J011405\J15022</u>
Level (low/med):	LOW	Date Received:	<u>01/07/05</u>
% Moisture: not dec.		Date Analyzed:	01/14/05
GC Column:	<u>ZB-624</u> ID: <u>.25</u> (mm)	Dilution Factor:	1.0
Soil Extract Volume	(μ L)	Soil Aliquot Volume	e:(μ L)
		CONCENTRATION	
CAS NO.	COMPOUND		Q
₹ 75-35		7	14 = Excet
540-59	-0 1,2-Dichloroethene (total)	63	56
79-01	-6 Trichloroethene	2	035 1



IA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

					MI 1-1C-DF W031	
Lab Name:	ACCURA ANAI	YTICAL LA	B	Contract:	CTO #0194 / N2877	
Lab Code:	ACCURA			SAS NO.:		
Case No.:	<u>7458</u>			SDG NO.:		
Matrix (soil/water):	WATER			Lab Sample Id:	7458-005	
Sample wt/vol:	25.00	(g/mL)	ML	Lab File ID:	J011405\J15026	
Level (low/med):	LOW			Date Received:	01/07/05	
% Moisture: not dec.		_		Date Analyzed:	01/14/05	
GC Column:	ZB-624	ID: <u>.25</u>	(mm)	Dilution Factor:	1.0	
Soil Extract Volume		(μ L)		Soil Aliquot Volume:		(μL
0,000				CONCENTRATION U		••

CAS NO.			("B & O. C	PATE (PATE
	COMPOUND			0
	1,1-Dichloroethene	7	0,60	<u> </u>
540-59-0	1,2-Dichloroethene (total)	63	51	
79-01-6	Trichloroethene	1	17	
75-01-4	Vinyl Chloride		1.7	7.7
		<u> </u>	1.0	U





1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-EP-DPW02I Lab Name: ACCURA ANALYTICAL LAB Contract: CTO #0194 / N2877 Lab Code: **ACCURA** SAS NO.: Case No.: <u>7458</u> SDG NO.: Matrix (soil/water): WATER Lab Sample Id: <u>7458-006</u> Sample wt/vol: 25.00 (g/mL) ML Lab File ID: J011405\J15024 Level (low/med): **LOW** Date Received: 01/07/05 % Moisture: not dec. Date Analyzed: 01/14/05 GC Column: ZB-624 ID: <u>.25</u> (mm) **Dilution Factor:** 1.0 Soil Extract Volume (μ L) Soil Aliquot Volume: (μ L) CONCENTRATION UNITS (ug/L or ug/Kg) ug/L

CAS NO. COMPOUND Q

75-01-4 Vinyl Chloride 2.2

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			TSC00101	
Lab Name: ACCURA	ANALYTICAL LAB	Contract:	CTO #0194 / N2877	
Lab Code: ACCURA	Case No.: 7458	NRAS No.	DG No.: 7458	
Matrix (soil/water): SO	<u>DIL</u>	Lab Sample ID: 745	8-009	
Level (low/med): Level	<u>ow</u>	Date Received: 01/0	07/2005	
% Solids: <u>86</u>				
Cas No.		MG/KG		
CAS No.	Analyte	MG/KG Concentrat	ion C Q M	
CAS No. 7440-38-2		Concentrat	ion C Q M	\cap K
CAS No.	Analyte	Concentrat		OK
CAS No. 7440-38-2	Analyte Arsenic	Concentrat	0.29	OK
CAS No. 7440-38-2 7440-39-3	Analyte Arsenic Barium	Concentrat	0.29	ΟK
CAS No. 7440-38-2 7440-39-3 Color Before	Analyte Arsenic Barium Clarity Before	Concentrat	0.29 2.9 exture:	ΟK
CAS No. 7440-38-2 7440-39-3 Color Before Color After:	Analyte Arsenic Barium Clarity Before	Concentrat	0.29 2.9 exture:	ΟK

EPA SAMPLE NO.



50-32-8 Benzo(a)pyrene 205-99-2 Benzo(b)fluoranthene

1C SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA	SAMPLE N	0.
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TSC00101

Lab Name: ACCU	J RA ANAI	LYTICAL LAB		Contract: CTO #019	4 / N2877	
Lab Code: ACCI	JRA .	Case No.: 7458		SAS No.	SDG No.: N/A	
Matrix : (soil/water)	SOIL			Lab Sample Id:	7458-009	
Sample wt/vol:	30.01	(g/ml); ML		Lab File ID:	1B011705\B47491	
Level : (low/med)	LOW			Date Received:	01/07/05	
% Moisture:	14	Decanted: (Y/N) N		Date Extracted:	01/14/05	
Concentrated Extrac	t Volume: 1	1000	(μ L	Date Analyzed:	01/17/05	
njection Volume:	1.0		_ (μ L	Dilution Factor:	1.0	
GPC Cleanup (Y/N):	: <u>N</u>	pH: N/A		Extraction: (Type)	SW3545	
CAS NO.	Renzo(2)2	COMPOU	ND 	CON (ug/L or ug/K	CENTRATION UNITS: g) ug/kg	Q

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1 E PESTICIDE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
TSC00101

Lab Code : ACCURA Case No.: 7458 SAS No. SMP SDG No.: N/A Matrix : SOIL Lab Sample Id: 7458-009 Sample wt/vol: 30.02 (g/ml): G Lab File ID: 011905\D5011905 % Moisture: 14 Decanted: (Y/N) Date Received: 01/07/05 Extraction: (Type) SW3545 Date Extracted: 01/19/05 Concentrated Extract Volume: 2500 (μ L) Date Analyzed: 01/19/05 Injection Volume: (μ L) Dilution Factor: 1.0 GPC Cleanup (Y/N): pH: Sulfur Cleanup (Y/N): CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg 11096-82-5 Aroclor-1260 25 Ug/L or ug/Kg)	Lab Name : ACCURA ANAL	YTICAL LAB.		Contract: CTO #01	94 / N2877	
Sample wt/vol: 30.02 (g/ml): G	Lab Code: ACCURA	Case No.: 7458	SAS No	. SMP SDG No	.: <u>N/A</u>	
% Moisture: 14 Decanted: (Y/N) Date Received: 01/07/05 Extraction: (Type) SW3545 Date Extracted: 01/19/05 Concentrated Extract Volume: 2500 (μ L) Date Analyzed: 01/19/05 Injection Volume: (μ L) Dilution Factor: 1.0 GPC Cleanup (Y/N): pH: Sulfur Cleanup (Y/N): CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Matrix: SOIL			Lab Sample Id:	7458-009	
Extraction: (Type) SW3545 Concentrated Extract Volume: 2500 Injection Volume: (μ L) GPC Cleanup (Y/N): Date Extracted: 01/19/05 (μ L) Date Analyzed: 01/19/05 (μ L) Dilution Factor: 1.0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Sample wt/vol: 30.02	(g/ml): <u>G</u>		Lab File ID:	011905\D5011905	
Concentrated Extract Volume: 2500	% Moisture: <u>14</u>	Decanted: (Y/N)		Date Received:	<u>01/07/05</u>	
Injection Volume: (μ L) (μ L) Dilution Factor: 1.0 GPC Cleanup (Y/N): CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Extraction: (Type)	SW3545		Date Extracted:	01/19/05	
Injection Volume: (μ L) Dilution Factor: 1.0 GPC Cleanup (Y/N): PH: Sulfur Cleanup (Y/N): CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Concentrated Extract Volume:	<u>2500</u>	(μ L)	Date Analyzed:	01/19/05	
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Injection Volume:		-	Dilution Factor:	<u>1.0</u>	
(ug/L or ug/Kg) ug/kg	GPC Cleanup (Y/N):	pH:		Sulfur Cleanup (Y/N):		
11096-82-5 Aroclor-1260						
2.5	11096-82-5 Aroclor-1	260			2.5 L	$\neg \cap \cap k$



1 E PESTICIDE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
TSC00401

Lab Name : ACCURA ANAL	YTICAL LAB.		Contract:	CTO #0194 /	N2877		
Lab Code: ACCURA	Case No.: 7458	SAS No.	SMP	SDG No.: N/			
Matrix: SOIL			Lab Sample Id		 <u>58-010</u>		
Sample wt/vol: <u>30.05</u>	(g/ml): <u>G</u>		Lab File ID:		1905\D5011908		
% Moisture: <u>28</u>	Decanted: (Y/N)		Date Received		/07/05		
Extraction: (Type)	SW3545		Date Extracted	: <u>01</u>	/19/05		
Concentrated Extract Volume:	<u>2500</u>	(μ L)	Date Analyzed	: <u>01</u> ,	/19/05		
Injection Volume:			Dilution Factor				
GPC Cleanup (Y/N):	pH:		Sulfur Cleanup	(Y/N):			
				CONCENTR (ug/L or ug/K	ATION UNITS: g) ug/kg		
11096-82-5 Aroclor-1	260				2.9	U	コロス
							コしノバ

1 E PESTICIDE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
TSC00401

Lab Name : ACCURA ANAL	<u>YTICAL LAB.</u>		Contract: CTO #019	94 / N2877
Lab Code: ACCURA	Case No.: 7458	SAS No	. <u>SMP</u> SDG No.:	: <u>N/A</u>
Matrix: <u>SOIL</u>			Lab Sample Id:	<u>7458-010</u>
Sample wt/vol: 30.05	(g/ml): <u>G</u>		Lab File ID:	011705\E5011715
% Moisture: <u>28</u>	Decanted: (Y/N)		Date Received:	01/07/05
Extraction: (Type)	SW3545		Date Extracted:	01/14/05
Concentrated Extract Volume:	10000	(μ L)	Date Analyzed:	<u>01/17/05</u>
Injection Volume:	<u>2</u>	(μ L)	Dilution Factor:	1.0
GPC Cleanup (Y/N):	pH:		Sulfur Cleanup (Y/N):	
				ITRATION UNITS: g/Kg) ug/kg
1024-57-3 Heptachle	or Epoxide			2.31 U DH

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70			BUKe			•		2	200302
round				METAC. GW.DPW.03S	GWLDPWD4D				MPT-AC-GW-DPW091
location	_		-	_		MPT-AC-DPW04I-RS			MPT-AC-DPW09I-RS
Samole	MPT-AC-DPW011-RS	MPT-AC-DPW01S-RS	MPT-AC-DPW03I-RS	MPT-AC-DPW03S-RS		PW04I-RS	PW04S-RS	PW08D-RS	MPT-AC-DPW09I-RS
mathx									NS.
sacode		NORMAL	NORMAL	NOKMAL 9999	NORMAL -8999				-9886 -
bottom dep						6868-	6686-		-9999
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Volatite Organics (ug/L)			1	•					
1,1,1,2-TETRACHLOROETHANE									
1,1,1-TRICHLOROETHANE									
1.1.2.2-TETRACHLOROETHANE									
1,1,2-TRICHLOROETHANE									
1,1-DICHLOROETHANE									
1,1-DICHLOROETHENE									
1,2,3-TRICHLOROPROPANE									
1,2-DIBROMO-3-CHLOROPROPANE									
1,2-DIBROMOETHANE									
1,2-DICHLOROETHANE									
1,2-DICHLOROPROPANE									
2-BUTANONE									
2-CHLOROETHYL VINYL ETHER									
2-HEXANONE									
3-CHLOROPROPENE									
4-METHYL-2-PENTANONE									
ACETONE									
ACETONITRILE									
ACROLEIN									
ACRYLONITRILE									
BENZENE									
BROMODICHLOROMETHANE									
BROMOFORM									
BROMOMETHANE									
CARBON DISULFIDE									
CARBON TETRACHLORIDE									
CHLOROBENZENE									
CHLOROLIBROMOMETHANE									
CHLOROETANE									
CHLOROMETHANE									
CHLOROPRENE									
CIS-1,2-DICHLOROETHENE									
CIS-1,3-DICHLOROPROPENE									
DIBROMOMETHANE									
DICHLORODIFLUOROMETHANE									
ETHYL METHACKYLATE									
ISOBITANO!									
METHACRYLONITRE									
METHANE									
METHYL IODIDE									
METHYL METHACRYLATE									
METHYL TERT-BUTYL ETHER									
METHYLENE CHLORIDE									
STYRENE									
TETRACHLOROETHENE									
TOLUENE									
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	MPT-AC-DPW011-RS	MPT-AC-DPW01S-RS		MPT-AC-DPW03S-RS		MPT-AC-DPW04I-RS			MPT-AC-DPW09I-RS
			PW03I-RS		PW04D-RS		PW04S-RS	PW08D-RS	APT-AC-DPW08I-RS
matrix	QW MANA	GW	GW	GW	GW	GW	GW	NORMAL	NORMAL
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TRICHLOROETHENE									
TRICHLOROFLUOROMETHANE									
VINYL ACETATE									
VINYL CHLORIDE									
Semivolatile Organics (ug/L.)									
1,2,4,5-TETRACHLOROBENZENE									
1,2,4-TRICHLOROBENZENE									
1,2-DICHLOROBENZENE									
1,3,5-TRINITROBENZENE									
1,3-DICHLOROBENZENE									
1,3-DINITROBENZENE									
1,4-DICHLOROBENZENE									
1,4-DIOXANE									
1.4-NAPHTHOQUINONE									
1,4-PHENYLENEDIAMINE									
1-NAPHTHYLAMINE									
2.2'-OXYBIS(1-CHLOROPROPANE)									
2,3,4,6-TETRACHLOROPHENOL									
2,4,5-TRICHLOROPHENOL									
2,4,6-TRICHLOROPHENOL									
2,4-DICHLOROPHENOL									
2,4-DIMETHYLPHENOL									
2,4-DINITROPHENOL									
2,4-DINITROTOLUENE									
2,6-DICHLOROPHENOL									
2.6-DINITROTOLUENE									
2-ACELITAMINOFLOCKENE									
2-CHLOROPHENOI									
2-METHYLNAPHTHALENE									
2-METHYLPHENOL									
2-NAPHTHYLAMINE									
2-NITROANILINE									
2-NITROPHENOL									
2-PICOLINE									
3.3-DICHLOROBENZIDINE									
3-METHYLCHOLANTHRENE									
3-METHYLPHENOL									
3-NITROANILINE									
4,6-DINITRO-2-METHYLPHENOL									
4-AMINOBIPHENYL									
4-BROMOPHENYL PHENYL ETHER									
4-CHI ORDANII INF									

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sample	MPT-AC-DPW011-RS	MPT-AC-DPW01S-RS							MPT-AC-DPW09I-RS
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4-CHLOROPHENYL PHENYL ETHER									
4-METHYLPHENOL									
4-NITROPHENOI									
4-NITROQUINOLINE-1-OXIDE									
S-NITRO-O-TOLUIDINE									
7,12-DIMETHYLBENZ(A)ANTHRACENE									
A,A-DIMETHYLPHENETHYLAMINE									
ACENAPHTHENE									
ACENAPHTHYLENE									
ACETOPHENONE									
ANILINE									
ANTHRACENE									
ARAMITE									
BENZO(A)ANTHRACENE									
BENZO(A)PYRENE									
BENZO(B)FLUORAN I HENE									
RENZOWNEI I DOBANTHENE									
BENZYI, ALCOHOL									
BIS(2-CHLOROETHOXY)METHANE									
BIS(2-CHLOROETHYL)ETHER					1				
BIS(2-ETHYLHEXYL)PHTHALATE									
BUTYL BENZYL PHTHALATE									
CARBAZOLE									
CHRYSENE									
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DI-N-OCTYL PHTHALATE									
DIALLATE									
DIBENZO(A, H)ANTHRACENE									
DIBENZOFURAN									
DIETRYL PHINALATE									
DINOSEB									
DIPHENYLAMINE									
ETHYL METHANE SULFONATE									
ETHYL PARATHION									
FLUORANTHENE									
HEXACHI OBOBENZENE									
HEXACHLOROBUTADIENE									
HEXACHLOROCYCLOPENTADIENE									
HEXACHLOROETHANE									
HEXACHLOROPROPENE									
INDENO(1,2,3-CD)PYRENE									
SOPHOBONE									
ISOSAFROLE									
METHAPYRILENE									



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nsample	MPT-AC-DPW011-RS	MPT-AC-DPW01S-RS		MPT-AC-DPW03S-RS		MPT-AC-DPW04I-RS MPT-AC-DPW04I-RS	MPT-AC-DPW04S-RS		MPT-AC-DPW09I-RS
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sacode	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
bottom dep									6666
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METHYL METHANE SULFONATE									
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N-NI ROSODIPHENYLAMINE									
N-NITROSOME INTELLIFICATION									
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P-(DIMETHYLAMINO)AZOBENZENE									
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ALDRIN									
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AROCLOR-1016									
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BLDG 200302 MPT-AC-GW-DPW011 MPT-AC-GW-DPW011-RS MPT-AC-DPW011-RS MPT-AC-DPW011-RS MPT-AC-DPW011-RS MPT-AC-DPW011-RS GW					BLDG 200302 APT-AC-CSW-DPW04S-RS MPT-AC-DPW04S-RS GW MPT-AC-DPW04S-RS GW MORMAL 9898 9898 9898 1989 1989 1989 1989 198		BLDG 200302 200302 MPT-AC-DPW09I-RS GW MPT-AC-DPW09I-RS GW MORMAL -9899 20030423 0472303 Y 0123 HANSEN,T
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MPT-AC-GW-DPW011 MPT-AC-DPW01-RS MPT-AC-DPW01-RS MPT-AC-DPW01-RS MPT-AC-DPW01-RS MPT-AC-DPW01-RS GW NORMAL -9899 -					MPT-AC-GW-DPWO4S MPT-AC-DPWO4S-RS GW MPT-AC-DPWO4S-RS GW ONMAL 9889 -9899 -9899 -9030424 04024/ff3 Y HANSEN.T c.007		MPT-AC-GW-DPW09I MPT-AC-DPW09I-RS MPT-AC-DPW09I-RS GW NORMAL -9899 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -989 -9
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CAN	sample	MPT-AC-DPW011-RS		MPT-AC-DPW03I-RS	MPT-AC-DPW03S-RS		MPT-AC-DPW04I-RS		MPT-AC-DPW09D-RS	MPT-AC-DPW09I-RS
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location	MPT-AC-GW-DPW10I			MPT-AC-GW-DPW01S	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02S		MPT-AC-GW-DPW03
nsample	MPT-AC-DPW10I-RS			MPT-AC-GW-DPW01S-01	MPT-AC-GW-DPW02D-01	MPT-AC-GW-DPW02S-01		MPT-AC-GW-DPW03I-01
sample	MPT-AC-DPW101-RS	MPT-AC-GW-DPW01D-01		MPT-AC-GW-DPW01S-01	MPT-AC-GW-DPW02D-01	3W-DPW02S-01	3W-DPW03D-01	MPT-AC-GW-DPW03I-01
matrix	ΒW			<u>gw</u>	GW		ΜĎ	ВW
sacode	NORMAL	NORMAL		NORMAL.	NORMAL	NORMAL	NORMAL	NORMAL
top_depth	6666-			-9999	6666-		6666-	6666-
bottom_dep	-9999	6666-		6666-	6666-		6886-	6666-
gis date	20030424			20000105	20000108	•	20000110	20000110
sample_dat	04/24/03	01/05/00		01/05/00	01/06/00	01/06/00	01/10/00	01/10/00
validated	<u>></u>							
cto pro	0123	0199		0199				0199
pro manag	HANSEN,T	EN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c 010			c 013				c 017
Volatile Organics (uo/L)			:	:				
1112-TETRACHI OROFTHANE		11		= -	17.11	111	=	= -
1 1 1 TRICHI OBOETHANE				>==	7.7	= =)=
1 1 2 2 TETDACUI ODOCETUANIC					24.			2 -
4.4.5 TELLINGILLONOETHANE								
1,1,2-1 MICHLORUE HANE		10		١ ٥	1.7 U	10	0 L	0 1
L'I-DICHLOROE I HANE		0.37	0 -	חי	42	0.1	1.3	0.22.0
1,1-DICHLOROE I HENE		1 U	1.0	1.0	4.6	10	10	10
1,2.3-TRICHLOROPROPANE		1.0	10	1 0	1.7 U	10	1.0	10
1,2-DIBROMO-3-CHLOROPROPANE			100	31	1.7 U	10	10	10
1,2-DIBROMOETHANE		1 0	10	10	1.7 U	n	10	10
1.2-DICHLOROETHANE		10	1111	1.11	17 11		-	= +
12-DICHI OROPROPANE		= -		-	17.11			
2 DITANONE								
S COLORONE		0.00	0	ח מנ	0 /1	0 01	חמנ	O 01
2-CALCACE INTL VINTLEI MEK		1 0	1.0	1 0	1.7 U	1.0	10	10
Z-HEXANONE		10 U	10 U	10 U	17 U	10 U	- Q	
3-CHLOROPROPENE		10	10	10	1.7 U	10	10	0 -
4-METHYL-2-PENTANONE		10 U	10 U	10 U	17 U	10 01	10 U	10.0
ACETONE		10 11	1 01	10 11	17 11	100	11 04	101
ACETONITRILE		20 UR	20 UR	20 118	33 118	20 118	20 118	90.100
ACROLEIN		10 18	10 118	40 119	47 110	91 07	40 110	10 10
ACRYLONITRILE		10 11	104	1 0	12.4	1707	200	200
BENZENE		-	2 -	2				0 :
BROMODICHI OROMETHANE		023						
BONOEDBM		0.33			0 7.1		O L	0.
BEOWORTHAND				0	1.7 U	0	10	10
CABBON DISTILLEDS		2 m	2 03	2 0.3	3.3 U	2.0	2 U	2 U
CARBON DISULTIDE		10	10	10	1.7 U	1 0	10	1 U
CARBON LE RACHLORIDE		1 0	10	1 C	1.7 U	10	10	10
CHLOROBENZENE		1.0	1 U	1 0	1.7 U	1 0	1 U	1 0
CHLORODIBROMOMETHANE		0.2 J	10	10	1.7 U	1 0	1 0	1.0
CHIOROGOM		1 0.7	100	1 00	1.7 U	D .	10	1.0
COLONOR		0.67 J	1 0	1 0	1.7 U	10	10	1.0
CHIODODDENE		3	3	1 03	1.7 U	7 C	10	1 0
CIP 4 2 DIONI OBOSTUCKIE		D.	10	1 0	1.7 U	1 U	1 0	1 U
CIS-12-DICHI ODOBODENE		0 60	0.5 U	0.5.0	0.18 J	0.5 U	0.5 U	0.5 U
DISPONDANTIANE		0 .	10	1 0	1.7 U	10	1 U	1 0
DICH DOOD IT TO DOOR IT THE		0 -	1 0	1 U	1.7 U	1 U	10	٠ -
CTUS METUACON ATT		100	1 02	1 03	1.7 UJ	1 0.1	1 W	1 00
FTHY BENZENE			0 -	0	1.7 U	10	1 C	1.0
COBITANO		0 L	1.0	10	1.7 U	10	10	J -
METHACONI DAILE		50 UR	50 UR	50 UR	83 UR	50 UR	50 UR	50 UR
METHANE		30.5	1 00	1 5	1.7 U	J C	1 U	1 0
METHYLIODIDE		Q.	20	1400			15	09
METHY! METHACON ATE			10	10	1.7 U	10	1.0	10
METHYL TERT BLITYL ETHER		0 -	1 O	10	1.7 U	1.0	1 0	1 0
METHYLENE CHI ORIDE								
PROPIONITRII F				1 0	1.7 U	1 0	1 U	1 U
STYRENE		* OK	¥0.	4 UK	6.6 UR	4 UR	4 UR	4 UR
TETRACHI OROETHENE			0.	10	17.0	10	J U	1.0
TOLLIENE				0	1.7 U	10	10	10
				0 5	1.7 U	1 0	1 0	10



from wed_sam.dbf from wed_res.dbf from wed_res.xis from q:'sql_sery.ed-mayport\uplos

	3	5	75.0	55	*	5.0	955	5 (
no	BLDG	E C	BIOG	<u>ور</u> 10	BIDG	BI CO	50.00	BIDG
	20020	20000		20000	20000	20000	20000	20000
	ZDC007	20002		Popoz	ZOOOZ	ZOOOZ	70007	70007
location	MPT-AC-GW-DPW10I	MPT-AC-GW-DPW01D	MPT-AC-GW-DPW01	MPT-AC-GW-DPW01S	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02S	MPT-AC-GW-DPW03D	MPT-AC-GW-DPW03
nsamole	MPT-AC-DPW10LRS	MPT-AC_GW_DPW01D-01	MPT-AC-GW-DPW011-01	MPT-AC-GW-DPW01S-01	MPT-AC_GWLDPW020-01	MPT.AC.GWLDPWD2S.01	MPT.AC.GW. DPW03D.01	MPT-AC_GW-DPM03L01
sample	MPT-AC-DPW10I-RS	MPT-AC-GW-DPW01D-01	MPT-AC-GW-DPW011-01	MPT-AC-GW-DPW01S-01	MPT-AC-GW-DPW02D-01	MPT-AC.GW-DPW02S-01	MPT-AC-GW-DPW03D-01	MPT-AC-GW-DPW03L01
	WG.	WE	M.C	M.C.	WE	WE	W.S.	WE
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	6666-	6666-	5866-	6666	6666-	6666	6666	6666-
bottom den	9999	6660	0000	0000	0000	0000	0000	0000
	200000	20000406	2000000	19339	-0000	-9339	-9999	000000
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	U4/24/U3	00/50/10	00/50/10	01/05/00	01/06/00	01/06/00	01/10/00	04/10/00
Validated	<u>></u>							
cto_proj	0123	0199	0199	0199	0199	0199	0199	0189
proj manag	HANSEN.1	HANSEN	JEN.1	EN.T	HANSEN		HANSEN T	HANSEN T
sort	c 010	r 044			r 044		2 046	0.047
TAL 12-DICHLOBOETHENE					ŀ	,,,,		
TOTAL					0 ::		0	2
JOINT ATLEMES		0 -		0 L	U / L	חו	٦.	1.0
IKANS-1,2-DICHLOROETHENE		0.5 U	0.5 U	0.5 U	0.83 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE		10	1.0	110	1.7 U	10	1.0	10
TRANS-14-DICHLORO-2-BUTENE		= +	-	= +	17.11	=	-	=======================================
TRICHI COCHUENE						2	0:	
TOTOLI ODOLI IODORITA		0		0.1	U./ O	1 0	0.1	0.085 J
INCULCACITOCACOMETINANE		2 UJ	2 UJ	2 WJ	3.3 U	2 U	2 U	2 U
VINYL ACETATE		3	3-	1 52	1.7 U	10	n r	10
VINYL CHLORIDE		110	-		- 60		11 6	11.
Semivolabile Omenine (100)					200		2	2
Semily Organics (other)								
1.2.4.5-IETRACHLOROBENZENE		10 C	10 U	10 U	10 U	700	10 0	10 U
1,2,4-TRICHLOROBENZENE		10 1	1 05	101	11 01	40.11	1000	17 07
1 2 DICHI OBOBENZENE		2			2	2	2	
L'S-DICULCACOBEINZEINE		O 0L	10 O	10 U	10 U	10 U	10 U	10 U
13.5-I KINITROBENZENE		10 C	10 C	- Q-	10 U	10 11	10 01	10 (1
1.3-DICHLOROBENZENE		101	11 01	10 11	40 11	1 0	17.07	9
4 3 DINITEODENIZERE				2	2	2	2	2
L'S-DIMITROBENZEME		O OL	ט פר	10 U	10 D	10 U	10 U	10 U
1,4-UICHLORUBENZENE		10 O	10 U	± 0 €	10 U	2 0	10 U	10 U
1,4-DIOXANE		10 U	10 U	10 11	11 01	1 01	11 01	107
1.4-NAPHTHOOUINONE		10 11	10 11	- 0	1 2 2			2
1 4-PHENYI ENFINAMINE		200	2 2	2 9	2 2 2	2	0.00	
4 NADUTUCA MAINE		2	0	0.00	0.01	0.01	D 0L	10 0
PINCELL CAMBINE		ח מר	D DL	10 U	10 U	10 U	10 U	10 U
2,2-UXYBIS(1-CHLOROPROPANE)		10 U	10 U	10 U	10 U	U 01	10 U	10 U
2,3,4,6-TETRACHLOROPHENOL		10 U	U 01	10 U	10 U	70.0	10 17	1 0+
2,4,5-TRICHLOROPHENOL		10 11	10 11	10 11	11 0+	100	2	
2.4.6-TRICHI OROPHENOL		200	2 9	2 5		0.00	0 :	0 0 0
2 4 DICHI DEDENENCI			0 0	2	0.01	O OL	U OL	10 U
2, TOURISHOL		0.01	10 U	10 O	10 U	10 U	10 U	10 U
A.4-DIMELITY LYPIENOL		10 01	10 U	10 U				
2,4-DINITROPHENOL		25 U	25 ∪	25 U				
2,4-DINITROTOLUENE		10 U	10 U	10 11	10 11	10 11	40 11	100
2,6-DICHLOROPHENOL		10 11	10 11	10 17	100	40 11	1 0	200
2.6-DINITROTOLUENE		- 4	200		2	0.2	0.21	2
2-ACETYLAMINOFILIORENE			2 5	2	0 0	0 01	0 01	O DL
2.CHI OBONADHTHAI ENE		200	2	0 2	0	0 02	U 0.L	O OL
		0.00	0.02	J0 OL	10 U	10 U	10 U	10 U
2-CHCONOLINGE		10 O	10 U	10 U	10 U	10 ∪	10 U	10 U
2-METHYLNAPHTHALENE		10 U	± 0 €	10 U	10 U	10 U	10 11	10 U
2-METHYLPHENOL		U 01	10 U	10 01	10 (1	10 11	10 11	104
2-NAPHTHYLAMINE		11 01	10 07	11 01	1 07	200	200	2 4
2-NITROANILINE		11 36	1 20			2	0	0 01
2-NITROPHENOI		0.62	0 67	0.62	72 O	Z5 U	25 U	25 U
		0.00	O OL	10 U	10 U	10 U	10 U	10 C
Z-ricoline		10 U	10 U					
3.3-DICHLOROBENZIDINE		10 U	10 U	10 U	10 U	J 01	10 0	10 11
3/3-DIMETHYLBENZIDINE		10 U	10 U	10 1	10 0	10 01	10 11	-
3-METHYLCHOLANTHRENE		10 U	10 01	1 0	10 11	2 5	2 2 2	0 0 0
3-METHYLPHENOL		11 04	2 5		2	2	0	0 0
3-NITROANILINE		0 20	0 20	0 :	0.00	0 01	10 U	10 U
4 6-DINITRO-2-METHYI PHENOI		0.53	0 67	0 62	Z5 U	25 U	25 U	25 U
4-AMINOBIDIENS		0 62	Z5 U	25 U	25 U	25 U	25 U	25 U
4 DECAMODICANO DIFFICE		10 U	10 U					
A DEL OND & METHON DIFFIC		10 U	10 C					
4 CHLORO-3-ME IHYLPHENOL		10 U	10 U	10 U	-10 U	10 0	JO 01	10 U
4-CHLOROANILINE		10 U	10 U	10 U	U 01	10 U	10 01	101
					2	2 2	2 2	0 2

8 of 66

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	0.0	r c	210		5	65	9 C	5 0
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page	200302	-		_	200001		20000	200001
	2007		1000	0,000	COMPANY OF THE PROPERTY	Section 1	TOWN THE CONTRACT	Towns of the same
(OCARION	MPI-AC-GW-DPW10I		MPI-AC-GW-DPW01	MPI-AC-GW-UPWOIS	MPI-AC-GW-UPW0ZD	MPI-AC-GW-DPW02S	MPI-AC-GW-DPW03D	MPI-AC-GW-DP-WOSI
nsambie	MPI-AC-DPWIGI-KS		IMPI-AC-GW-DPW01I-01	MFI-AC-GW-DPWOTS-01	MPI-AC-GW-DPWdZD-01	MPI-AC-GW-DPW028-01	MPI-AC-GW-DPW03D-01	MFI-AC-GW-DFWGS-G1
Sampa	CY-IDI AA-IC	AA-CLAAA		JAA-DAALD-AAC	MIT I ACCOUNT OF WALL	ANT-DANCES-OIL	MILI-ACCURACION WASHED	City Control wool-Di
Sacode	NORMA	NORMAI		NORMA	NOW	NORWAI	NORMA	NORMAI
ton death					-9888		- 8666	6666-
battom dep	6666-			6666	5666-			6666-
date date	20030424	105		20000105	20000108	20000106		20000110
sample dat	04/24/03			01/05/00	01/06/00		01/10/00	01/10/00
validated	}							
ind of	0123	0100			0100	0100		0100
Com mana		F Nu	- NUMBER	HANNEN H	HANSEN H		HANSEN	HANSEN T
100	0.040				- 044	- 045		£ 047
Time					*10 0			100
4-CHCUROPHENTL PHENTL ETHER		0 OL	0.01	0 01	n ol	J0 U	U 0L	10 O
4-ME I HYLPHENOL		10 U	10 U	10 U	10 U	10 O	10 U	10 U
4-NITROANILINE		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-NITROQUINOLINE-1-OXIDE		10 UR	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR
5-NITRO-O-TOLUIDINE		10 U	10 U	U 01	10 U	U 01	10 U	10 U
7,12-DIMETHYLBENZ(A)ANTHRACENE		10 0	10 U	U 01	10 U	10 U	10 U	10 U
A.A-DIMETHYLPHENETHYLAMINE		70.05	20 11	105	1 09	50 11	50 111	171 05
ACENAPHTHENE		10 (1	100	10 1	40 11	101	10 11	10 1
ACENAPHTHY! FNF				-	200			
ACETOBHENONE		2					223	
ANILING		0 ::	0.00	0 0	0.01	0.01	0 01	0.00
ANILINE		10 O	10.0	- 10 O	10 O	10 U	10 U	10 U
ANTHRACENE		- P	10 U	J 01	10 U	10 U	10 U	10 U
ARAMITE		10 U	10 U	10 01	10 U	10 01	10 01	10 11
BENZO(A)ANTHRACENE		10 11	10 11	11 05	10 11	11 04	11 04	= 5
BENZO(A)PVRENE		2 9	2 5		2 9		200	2 4
BENZO/BIEL LIORANTHENE			2 9	2 4			0.01	0 0
DENZO(C) INDEDVI ENE		2	2	2	0	0 0	0 00	O OL
BENZO(G,n,))PERTLENE		O OL	10 U	10 U	10 U	10 U	10 U	10 U
DENZO(N)TLUORAN I DENE		n ot	10 U	10 U	10 U	10 U	10 U	10 U
DEVICE CHI COOLLAND		0.01	10 U	10 U	10 O	10 U	10 U	10 U
BIS(2-CHLURUE I HUAT)ME I HANE		10 U	10 U	10 U	10 U	10 U	10 U	10 U
BIS(2-CALUNDE I HYL)E I HER		10 U	10 0	10 U	10 U	10 U	10 U	10 U
BIS(Z-E I HYLHEXYL)PHTHALATE		5 U	5 U	5 U	5.0	n s	0.5	12 U
BUTYL BENZYL PHTHALATE		10 U	10 U	10 U	10 U	U 01	10 01	10.11
CARBAZOLE		10 U	10 U	10 U	10 D	10 11	10 01	10 11
CHLOROBENZILATE		10 U	10 U	10 U	10 U	10 U	10 11	10 11
CHRYSENE		10 U	101	101	101	100		
DI-N-BUTYL PHTHALATE		10 U	10 11	10 11	101	= 0+		
DI-N-OCTYL PHTHALATE		70 ₪	10 U	10 11	10 17	10 11		
DIALLATE		20 U	20 U	20 11	20 11	20 11	21 06	200
DIBENZO(A.H)ANTHRACENE		10 U	10 11	10 11	10 11	40 ==	=======================================	25
DIBENZOFURAN		10 U	10 U	10.1	10 01	10 =	2 5	2 5
DIETHYL PHTHALATE		10 U	10 01	10 01	10 11	100	= 5	2 5
DIMETHYL PHTHALATE		10 UR	10 UR	10 UR	10 UR	10 UR	40 118	10 19
DINOSEB								
DIPHENYLAMINE		10 U	10 U	10 U	10 U	10 U	U OL	10 U
ETHYL METHANE SULFONATE		10 U	10 U	10 U	10 U	10 U	U OL	10 n
ETHYL PARATHION		1.0	rn ı	10	10	10	3	1 01
FLUORANTHENE		10 U	U 01	10 U	10 U	10 U	10 01	10 11
FLUORENE		10 U	10 U	10 U	10 U	U 01	10 0	10 10
HEXACHLOROBENZENE		10 U	10 U	10 U	10 U	10 U	10 U	10 U
HEXACHLUROBU I ADIENE		10 U	10 U	10 U	10 U	10 U	10 U	10 11
HEXACHLOROCYCLOPENTADIENE		10 UR	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR
HEXACHLOROETHANE		10 U	10 U	10 U	10 U	10 U	10 U	10 U
MEXACHLOROPROPENE		10 U	10 U	10 U	10 U	10 U	U OL	10 U
INDERIO (1,2,3-CU)PTRENE		10 U	10 U	10 U	10 U	10 U	10 U	10 U
SOBHOOLI		0.1 U.	0.1 UJ	0.1 UJ	0.1 0.0	0.1 UJ	0.10	01 UJ
E CORSEDO E		10 U	10 U	10 U	10 U	10 U	10 U	10 U
METHADODI ENE		10 O	10 U	10 U	10 U	10 U	10 U	10 U
METTALTINE		10 U	10 U	10 U	10 U	10 U	10 U	10 U



from wed_sam.dbf from wed_res.dbf from wed_res.xls from q:\sql_server.cmayport\upload



	20		5 0	2 0	<u>.</u>	.	2 C	<u> </u>
-	BLDG	вгре	BLDG	BLDG	BLDG	DG.	BLDG	
	200302	200001		200001			200001	
TOUR DOOR	MPI-AC-GW-UPWIG	MPI-AC-GW-DP-W01D		MPT-AC-GW-DPW01S			MPT-AC-GW-DPW03D	
	MPI-AC-DPWIG-RS	MPI-AC-GW-DPWOID-01	MPI-AC-GW-DPW01-01	MPI-AC-GW-DPW01S-01	MPI-AC-GW-UPW0ZD-01	MPI-AC-GW-DPWd2S-01	MPT-AC-GW-DPW03D-01	
	MS WE	W. Janes		In-Close Control of the	JAAL LANGED-OIL	שובו לאכיים אחדים אחדים ו	ME CANADAMS OF THE STATE OF THE	MILL SOUTH THE PROPERTY OF THE
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
£	6866-	6866-		6866-	6686-	6686-	6668-	6666-
bottom_dep	6866-	6566-	-9999	6666-	6666-	6666-	6686-	6666-
sample dat	20030424	20000105	20000105	20000105	20000108	20000106	20000110	20000110
validated	X				2000		2	
	0123	0199			0199	0199	0199	0199
manag	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
Sort	010				c 014	c 015		c 017
METHYL METHANE SULFONATE		O 01	10 U	10 U	10 U	10 U	10 U	10 U
N.NITOCOCOLINIDO NO SANING		0 0	0 2 4	0 00	0 2	0.01	0 00	0 :
N-NITROSODIETHYI AMINE		2		200	2 2	000		2 4
N-NITROSODIMETHY! AMINE				200	200	2 5		2 9
N-NITROSODIPHENYLAMINE		2 5			200		2 5	200
N-NITROSOMETHYLETHYLAMINE		10 U	10 17	10 11	101	2 5	200	100
N-NITROSOMORPHOLINE		10 U	10 U	U 01	10 U	10 U	10 0	100
N-NITROSOPIPERIDINE		10 01	10 U	U 01	10 01	10 17	10 17	10 17
N-NITROSOPYRROLIDINE		10 U	10 U	10 U	10 U	10 0	10 []	10 U
NAPHTHALENE		10 01	10 11	1 01	101	10 13	10 11	10 11
NITROBENZENE		10 11	10 n	10 11	10 11	1 04	10 11	10 11
O,O,O-TRIETHYL PHOSPHOROTHIOATE		1 0.1	7 -	1111	1 10	100	1 1	100
O-TOLUIDINE		10 U	10 17	10 11	10 01	10 11	10 01	30+
P-(DIMETHYLAMINO)AZOBENZENE		U 01	10 01	10 11	10 11	100	10.01	10.1
PENTACHLOROBENZENE		10 U	10 11	0 00	10 11	1 0	20.1	200
PENTACHLOROETHANE		50 U	50 U	50 U	0 OS	20 0	20 U	n 09
PENTACHLORONITROBENZENE		10 U	10 O	10 01	10 U	10 01	10.01	10.01
PENTACHLOROPHENOL.		10 U	10 U	10 U	10 01	10 N	10 U	10 U
PHENACETIN		10 U	10 U	10 U	0 01	10 U	10 U	10 0
PHENANTHRENE		U 01	10 U	10 U	10 U	10 U	10 U	10 U
PHENOL		10 U	10 U	10 U	10 U	10 U	10 U	10 U
PRONAMIDE		10 U	10 U	10 0	10 U	10 U	10 U	10 U
PYRENE			10 U	10 U	10 U	10 U	10 U	10 U
PYRIDINE			10 U	10 U	10 U	10 U	10 U	10 U
SAFROLE		10 U	10 U	10 U	10 U	10 U	10 U	10 U
SULFOLEPP								
THIONAZIN Booth don Bob 10-11								
A 4: DDD								
44:DDE		0.05 0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
4.DDT		0.00	0 500	0 600	0.00	0 600	0.05 0	0.05 0.0
ALDRIN		0.05 U	0.05 U	0.05 U	0.05 U	0.00	0.500	500
ALPHA-BHC		0.05 U	0.05 U	0.05 U	0.05 U	U 90:0	0.05 U	U 50.0
ALPHA-CHLORDANE		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
AROCLOR-1016		1 0	1 0	1 U	10	1.0	1 0	1.0
AROCLOR-1221		10	1 C	1 U	1 0	10	1 0	1 0
AROCI OB-1242		0:	0:	7	1 n	0.1	1 0	10
AROCI OR-1248					1	0.	0	10
AROCLOR-1254							0:	0
AROCLOR-1260		2 =		2 =				2:
ВЕТА-ВНС		0.05 U	0.05 U	0.05 U	0.05 U	U 50 0	0 50 0	0 0 0
DELTA-BHC		0.05 U	0.05 U	0.05 U	0.05 U	0.05	0.05	200
DIELDRIN		0.05 U	0.05 U	0.05 U	0.05 U	0.05	0.05 U	0.05 U.
ENDOSULFANI		0.05 U	0,05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
ENDOSULFAN II		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
FNDRIN		0.05 0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
ENDRIN ALDEHYDE		0.05 0	0.000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
	7	2 60.0	0 60.0	U.U.O. I	U CO'O	0.05 U	0.05 U	0.05 WJ

nonid	BLDG 2003Q2				8LDG 2000Q1		C BLDG 2000Q1	200001
location insample sample mainx secode	MPT-AC-GW-DPW101 MPT-AC-DPW101-RS MPT-AC-DPW101-RS GW NORMA1	MPT-AC-GW-DPW01D MPT-AC-GW-DPW01D-01 MPT-AC-GW-DPW01D-01 GW NORMAL	MPT-AC-GW-DPW011 MPT-AC-GW-DPW011-01 MPT-AC-GW-DPW011-01 GW NORMAI	MPT-AC-GW-DPW01S MPT-AC-GW-DPW01S-01 MPT-AC-GW-DPW01S-01 GW NORMAL	MPT-AC-GW-DPW0ZD MPT-AC-GW-DPW0ZD-01 MPT-AC-GW-DPW0ZD-01 GW NORMAL	MPT-AC-GW-DPW02S MPT-AC-GW-DPW02S-01 MPT-AC-GW-DPW02S-01 GW NDRMAI	MPT-AC-GW-DPW03D MPT-AC-GW-DPW03D-01 MPT-AC-GW-DPW03D-01 GW NORMAI	MPT-AC-GW-DPW03I MPT-AC-GW-DPW03I-01 MPT-AC-GW-DPW03I-01 GW NORMAI
top_depth bottom_dep bottom_dep bottom_depth	-9999 -9999 20030424 047403		-9999 -9999 20000105 04 05 000	-9999 -9999 20000105	-9999 -9999 20000108	-9999 -9999 20000108	-9999 -9999 20000110	-9999 -9999 20000110
validated do_proj	042403 ∀ 0123		0199	0199	0199	0189	0199	017000
proj manag sort	G 010	HANSEN,T	G 012	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
ENDRIN KETONE		0.05 U	0.05 U	0.05 U	П	0.05 U	П	0.05 UJ
GAMMA-BHC (LINDANE)		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0 00 U	0.05 UJ
GAMMA-CHLORDANE HEPTACHI OR		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR EPOXIDE		0.05 U	0.05 U	U 20.0	0.05 U	0.05 U	0.05 U	0.05 UJ
ISODRIN								
KEPONE		1 03	3	1 02	1 00	3	3	٦ 2
SULFOTEPP		0 -	0.1 0	0.1 0	0.1 0	010	010	01 m
TOXAPHENE		2 0	2.0	2 0	2 0	2 0	2 0	2 W
OrganoPhPesticides (ug/l.)								
DIMETHOATE		10	1 0.7	1.0	ηι	1 0	1 00	1 0
FAMPHIR		0 -	10	7	-	70	0.	7
METHYL PARATHION		2 2	33					3 =
PHORATE		1.0	1.0	1 0	J L	10	10	10
THIONAZIN		10	1 0	1.0	1.0	10	10	10
24,5-T			1 +	1 1	1 1	-		
2.4.5-TP (SILVEX)		10	1 C	10	0.	30	0	
2.4-D		4 U	4 U	4 U	4 0	D 4	D 4	4 U
norganics (ug/L)		0.90	0.6 U	0.80	0.6 U	0.8 U	0.6 U	0.6 U
ALUMINUM		1650	73.6 U	73.6 U	73.6 U	73.6 U	73.6.11	73.8.11
ANTIMONY		3.2	2.6 U	2.8 U	2.6 U	2.6 U	2.6 U	26 U
ARSENIC		3.3	2.7 U	2.7 U	2.7 Ü	2.7 U	2.7 U	2.7 U
BARIUM		14.5	4.7	2.9	5.5	8.2	41.2	3.2
CADMILIM		0.30	0.3 0	0.3 U	0.3 U	0.38 U	0.3 U	0.3 U
CALCIUM		38900	GAROO I	106000	30000	0.2 U	0.2 U	0.2 U
CHROMIUM		25 U	16 U	1.6 U	1.6 U	19 [1	18 1	38300 J
COBALT		0.7 U	0.7 U	0.7 U	0.7 U	0.7.0	0 Z O	0.7.0
COPPER		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 0	1.1 U
LEAD		698 7	1280 J	343 7	2700 J	8630 J	994 J	410 J
MAGNESIUM		50800	13500	15,00	1.5 U	1.5 U	1.5 U	1.5 U
MANGANESE		14.5 J	44.1 J	93.1 J	47 B. J	136	C DOOLE	C 0L//
MERCURY		U 50.0	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
NOWE								
POTASSIUM		13.0	1.3 U	1.3 U	1.3 U	1.3 U	13 Ü	13 U
SELENIUM		47 U	47.11	47 II	28900 3	1570 J	109000 J	3250 J
SILVER		1.6 U	16 U	1.6 U	16 U	18.0	18.	181
SODIUM		431000	8740	15800	79300	17300	1800000	14800
TIN	0.24 U	10.2	7.1 U	7.1 U	7.1 U	7.1 U	7.5	7.1 U
VANADIUM		25.0	25 0	2.5 U	2,5 U	2.5 U	2.5 U	25 U
ZINC		11.9 U	15 U	42 []	0.00	0.5 0	0.98 0	0.91 U
Miscellaneous Parameters (mo/l)						2004	20.10	0.00





order	010	011	012	013	014	015	016	017
aoc	<u>U</u>	<u>υ</u>	<u> </u>	ن	<u>υ</u>	Ü	ပ	ပ
no	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG
punal	200302	200001	200001	200001	200001	200001		200001
location	MPT-AC-GW-DPW10I	MPT-AC-GW-DPW01D	MPT-AC-GW-DPW011	MPT-AC-GW-DPW01S	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02S	MPT-AC-GW-DPW03D	MPT-AC-GW-DPW03I
nsample	MPT-AC-DPW101-RS	MPT-AC-GW-DPW01D-01	MPT-AC-GW-DPW011-01	MPT-AC-GW-DPW01S-01	MPT-AC-GW-DPW02D-01	MPT-AC-GW-DPW02S-01		MPT-AC-GW-DPW03I-01
sample	MPT-AC-DPW10I-RS	MPT-AC-GW-DPW01D-01	MPT-AC-GW-DPW01L01	MPT-AC-GW-DPW01S-01	MPT-AC-GW-DPW02D-01	MPT-AC-GW-DPW02S-01		MPT-AC-GW-DPW03I-01
matrix	GW	0M		Вw	МÐ			ВW
sacode	NORMAL	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
top_depth	6666-	6666-	6666-	6666-			6888-	6666-
bottom_dep	6666-	6666-		6666-	6666-	6666-	6686-	6666-
gis date	20030424	20000105	105	20000105			20000110	20000110
sample dat	04/24/03	01/05/00	01/05/00	01/05/00			01/10/00	01/10/00
validated	<u>></u>	_						
cto_proj	0123	0199	0199	0199	0199	0199	0199	0199
proj manag	HANSEN.T	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c_010	c_011	:	c_013	c 014	c_015	c_016	c_017
NITRATE		2.5 U	0.01	0.5 U			0.1 U	0.10
NITRITE		2.5 U	0.5 U	U 5.0			0.1 U	0.1 U
SULFATE	1	92	28	45			570	8

	9018 2	ø	BLDG			BLDG	c BLDG	9018 2
. 9	2000Q1 MPT-AC-GW-DPW03S MPT-AC-GW-DPW03S-01	2000Q1 MPT-AC-GW-DPW04D MPT-AC-GW-DPW04D-01	2000Q1 MPT-AC-GW-DPW04I MPT-AC-GW-DPW04I-01		2000Q1 MPT-AC-GW-DPW05I MPT-AC-GW-DPW05I-01	2000Q1 MPT-AC-GW-DPW05S MPT-AC-GW-DPW05S-01	2000Q1 MPT-AC-GW-DPW06D MPT-AC-GW-DPW06D-01	2000Q1 MPT-AC-GW-DPW06i MPT-AC-GW-DPW06I-01
	MPT-AC-GW-DPW03S-01 GW NORMAL	C-GW-DPW04D-01	MPT-AC-GW-DPW04I-01 GW NORMAL	MPT-AC-GW-DPW05D-01 GW NORMAL	MPT-AC-GW-DPW05I-01 GW NORMAL	MPT-AC-GW-DPW05S-01 GW NORMAL	MPT-AC-GW-DPW06D-01 GW NORMAL	MPT-AC-GW-DPW06I-01 GW NORMAL
de	9889		6666 -		6666- 6666-	6868- 6668-	6668- 6868-	6666- 6666-
gis_ann Sample_dat	01/12/00	20000108 01/06/00	20000108 01/06/00	20000110	20000110	20000114 01/14/00	20000113 01/13/00	20000113 01/13/00
æ	0199 HANSEN,T	0199 HANSEN.T	0199 HANSEN.T	0199 HANSEN T	0199 HANSEN T	0199 HANSEN T	0199 HANSEN T	0199 HANSEN T
anics fund 1	c_018	c_019					c_024	c_025
1,1,1,2-TETRACHLOROETHANE	1 0	1.0	1.0	1 0	1 0	1 0	10	1 0
1,1,1-TRICHLOROETHANE	J .	10	10	1 0	1 0	1 0	10	J C
1.1.2-TRICHLOROETHANE	2 2				2 -	2 -	0 =	
1,1-DICHLOROETHANE	10	2	12	100	10	100	10	
1,1-DICHLOROETHENE	1 U	1 U	0.71 J	1 0	1.0	1 U	10	0.1
12.3-TRICHLOROPROPANE	J .	D :	n t	101	10	n t	1 C	10
1,2-DIBROMOETHANE	2 - 2) -
1,2-DICHLOROETHANE	J L	10	L 780.0	200	0 1			
1.2-DICHLOROPROPANE	1 0	1 0	1.0	1.0	10	2	20	<u>ח</u>
2-BUTANONE	J 01	10 U	10 U	10 U	10 Ū	U 01	10 U	10 U
2-HEXANONE	7	10		10	10	J C	J C	1 U
3-CHLOROPROPENE	2 -	2		0 01	0 01	0.04	0 0,	10 U
4-METHYL-2-PENTANONE	10 U	10 U	D 02	10 U	10 U	10 U	10 U	200
ACETONE	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
ACETONII RILE	20 UR	20 UR	20 UR	20 UR	20 UR	20 UR	20 UR	20 UR
ACRYLONITRILE	10 U	A 05	202	10 OK	10 UK	30 OF	10 UR	10 UR
BENZENE	1 U	1 0	10	10	10	2 -	2-	2
BROWDECHLOROMETHANE	10	1.0	1 0	J L	1.0	10	10	10
BROMOMETHANE	7 7	D :	10	J.	1 0	1.0	1.0	1 0
CARBON DISULFIDE	10	207	2 0	2 0	2 U	2 U	2 U	2 U
CARBON TETRACHLORIDE	1 0	20	7 -	10	1 0		0.62 J	0.54
CHLOROBENZENE	10	1.0	1 C	1 0	10	10	10	7
CHLOROGETHANE	7	1 0	1 C	1 0	1 0	1 U	1.0	1 0
CHLOROFORM					2	3	J :	10
CHLOROMETHANE	1 U	1 0	100	10	100			
CHLOROPRENE CIS 12 DICUI OBOSTUSIO	J L	1 0	1 0	1 0	1 0	10	חר -	10
CIS-13-DICHLOROPROPENE	0.5 0	0.34 J	96.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DIBROMOMETHANE	10	0 0				7	ח	J :
DICHLORODIFLUOROMETHANE	1 U	1 03	3 -	1 00	131			
ETHYLBENZENE	0 :	D :	10	1 0	1 U	1 U	10	10
ISOBUTANOL	0 - S	0 1	0 1 0	0 1	1 U	1 0	1.0	1 0
METHACRYLONITRILE	100	200	30 05	30 OK	SO UR	50 UR	50 UR	50 UR
METHANE	28			310	130	140	7 C	1 00
METHYL METHACEN ATE	J C	1 0	. U	1 0	10	1 U	1 0	1 1
METHYL TERT-BUTYL ETHER	0	10	10	10	1 C	10	J U	1 0
METHYLENE CHLORIDE	10	10	101			-		
PROPIONITRILE	4 UR	4 UR	4 UR	4 UR	4 UR	4 UR	- 4 - 18	O L
TETRACHLOROETHENE	0	0 :	10	1 0	1 0	1 0	1 U	10
TOLUENE	0			2 =	7) C	n F	1.0
			2	2	2 -	ŲĹ	1 U	10



					000	200	7007	1035
order	078	610	825	170	7 0	3 U	S U	, o
no	BLDG	DG.		ВПОС	BLDG	BLDG	BLDG	BLDG
round	200001	200001		2000Q1	200001	2000Q1	200001	2000Q1
location	MPT-AC-GW-DPW03S	MPT-AC-GW-DPW04D	MPT-AC-GW-DPW04I	MPT-AC-GW-DPW05D	MPT-AC-GW-DP-Wdsi	MPI-AC-GW-DPW05S	MPI-AC-GW-DPW06D	MATI-AC-GW-D-WOO
nsample	MPT-AC-GW-DPW03S-01	MPT-AC-GW-DPW04D-01		MPT-AC-GW-DP-W05D-01	MPI-AC-GW-UPWOSI-01	MPI-ACCW-DPW030-01	MPT-AC-GW-DPW00D-01	TO TOWN TO THE TOWN
sample	MPT-AC-GW-DP-W03S-01	MPI-AC-GW-DPW04D-01	av-Urwo4I-01	Mr. I-AC-GW-D-WGD-GI	D-COALD-ASS-OV-I-WE	GW.	SW STANDARD	ßW
sacode	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
top_depth	6666-	6666-	6666-	-9999	6666-	6666-	6666-	6666-
bottom_dep	-9999	6666-	-9999	-9899	-9999	-9999	-9999	-9989
gis_date	20000112	20000106	20000106	2000110	2000110	01/14/00	01/13/00	01/13/00
sample dat	0021/10	000000	0000/10					
	0199	0199		0199	0199	0199	0199	0199
pro_manag	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	EN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c_018	c_019		c_021	c_022	c_023	c_024	c_025
TOTAL 1,2-DICHLOROETHENE	1 0	u r	J 96.0	1 U	J .	1 O	10	10
TOTAL XYLENES	1 U	10	1.0	1.0	1 0	10	10	0
TRANS-1,2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50	0 60
TRANS-1.3-DICHLOROPROPENE	10	1 0	1 U	1 O	2	n r	0 -	0
TRANS-1,4-DICHLORO-2-BUTENE	1 W	1.0	1 0	1.0	٠ ر	10	n n	1 00
TRICHLOROETHENE	J C	1 U	0.082 J	1 U	1 N	1 U	10	0
TRICHLOROFLUOROMETHANE	2 U	2 U	2 U	2 U	2 U	2 0	2 0	2.0
VINYL ACETATE	1 0.7	0:	0.0					
VINYL CHLORIDE	10	1.0	0.19 J	0	0	0	0 -	0.
Semivolatile Organics (ug/L)								11 07
1.2.4.5-TETRACHLOROBENZENE	10 0	10 U	10 0	0.01	D :	0 :	0 00	0 0
12,4-IRICHLOROBENZENE	10 0	0.00	ח מר	0.01		0.00	200	
1,2-DICHLOROBENZENE	0.01	O OL	0.00	0.01	0 2	0:0	2	2
1.3.5-I KINI I KOBENZENE	0.01	0 01	0 01	0.00	0 0 0	0 0	0 2 3	2
1,9-DICHLOROBENZENE	2	0.00	0.00	0.00	0.00	0 2		
1,3-DINI ROBENZENE	0.00	0 01	0.01	0 00	0.00	0 2	0 2	0.02
1,4-DICHLOROBENZENE	0.00	ח מני	0.00	0.00	0 0 0	0 2	2	0 2
1.4-DIOXANE	0.00	0 00	7		0.00	0.01	2 4	000
4 DURING PRINCIPLE	0 :	0.01	0.00		0 0 0	0 0		2 0
1-MADHTHY AMINE					0 2 5	2	200	
2 2'-OXYBIS(1-CHI OROPROPANE)	2 5	200	200	200	200	1 01	10.0	20 10
2346-TETRACHI OROPHENOI	200	5 5		=======================================	100	2 2	200	= 5
2.4.5-TRICHI OROPHENOI	- 25	2 5	101	5 05	10 11	10 11	10 17	10 11
2.4.6-TRICHLOROPHENOL	100	200	10 01	10 11	1 01	10 11	10 U	10 U
2.4-DICHLOROPHENOL	10 ft	10 0	10 U	10 01	10 01	10 17	10 0	10 0
2.4-DIMETHYLPHENOL	10 0	0 0	10 U	10 0	10 01	10 U	10 U	10 U
2.4-DINITROPHENOL	25 UJ	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2.4-DINITROTOLUENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2.6-DICHLOROPHENOL	10 U	10 U	10 ∪	10 U	10 U	10 U	10 U	10 U
2.6-DINITROTOLUENE	10 U	J0 0L	10 U	10 U	10 U	10 U	10 U	10 U
2-ACETYLAMINOFLUORENE	10 U	10 U	10 U	10 01	10 U	10 U	10 Ü	10 U
2-CHLORONAPHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	10 O	0 0	10 U	10 O	10 0	10 U	10 U	10 U
2-MEINTLINAPHINALENE	10 0	0 0 0	10 0	10 0	0.01	0 00	10 0	100
2-NAPHTHYI AMINE	200				200	0.00	0.00	000
2-NITROANILINE	25.0	25 11	25.55	25 11	25.5	25.12	25.00	20.00
2-NITROPHENOL	10 U	10 U	10 0	10 D	10 D	10 1	10 U	10 1
2-PICOLINE	10 U	10 01	0 01	10 01	10 01	10 11	10 17	101
3.3-DICHLOROBENZIDINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-DIMETHYLBENZIDINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-METHYLCHOLANTHRENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
A DINITION 3 METUNION	25 0	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-AMINORIDHENS	75 0	75 0	25 U	25 U	25 0	25 U	25 U	25 U
4-BROMOPHENYL PHENYL ETHER	10 U	2 2	200	2 2	0.00	100	0.00	
4-CHLORO-3-METHYLPHENOL	10 U		10 0	10 U	10 U	0.00	200	200
4-CHLOROANILINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100
							1	!!

	018	019	020	021	022	023	024	025
	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	C BLDG	C BLDG
	2000Q1 MPT-AC-GW-DPW03S		2000Q1 MPT-AC-GW-DPW04I	2000Q1 MPT-AC-GW-DPW05D	2000Q1 MPT-AC-GW-DPW05I	2000Q1 MPT-AC-GW-DPW05S	2000Q1 MPT-AC-GW-DPW06D	2000Q1 MPT-AC-GW-DPW06I
	MPT-AC-GW-DPW03S-01	SW-DPW04D-01	MPT-AC-GW-DPW04I-01 MPT-AC-GW-DPW04I-01	MPT-AC-GW-DPW05D-01 MPT-AC-GW-DPW05D-01	MPT-AC-GW-DPW05I-01 MPT-AC-GW-DPW05I-01	MPT-AC-GW-DPW05S-01 MPT-AC-GW-DPW05S-01	MPT-AC-GW-DPW06D-01 MPT-AC-GW-DPW06D-01	MPT-AC-GW-DPW06I-01 MPT-AC-GW-DPW06I-01
	GW NORMAL	NORMAL	GW NORMAL	GW NORMAL	GW NORMAL	GW NORMAL	GW NORMAL	GW NORMAL
	-9989	-9999	6666-	6666	6666-	6666-	6666-	6666-
	01/12/00	01/06/00	01/06/00	01/10/00	01/10/00	01/14/00	01/13/00	20000113
	0199		0199	0199	0189	0199	0189	0199
	c 018	c 019	G 020	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
4-CHLOROPHENYL PHENYL ETHER	10 U	10 U	10 U	10 U	ı	10 U	10 U	10 U
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	10 11 01	25 0	25 U					
5-NITRO-O-TOLUIDINE	1 01	20 07	10 OF	10 UK	50 CF	10 UR	10 UR	10 UR
CENE	10 U	700	200			1000	100	2 5
Ē	50 UJ	20 U	7 05	20 11	20.5	2 5	25	2 5
	10 U	10 U	10 U	10 Ū	10 11	= 0+	200	2 = 2
	10 U	10 U	10 U	10 U	10 U	10 U	10 0	2 2
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9 0
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 C
	0.00	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	10.00	0:0:	10 0	10 U				
	200	0.01	0 0 0	0.00	10 0	-10 U	10 U	10 U
BENZO(K)FLUORANTHENE	10 U	200	200		0 01	ט טר	10 0	9
	10 U	10 U	10 U	10 01	200		200	
NE.	10 U	10 U	10 U	10 U	10 U	10 D	200	2 5
	10 U	10 U	10 U	10 U	10 U	10 0	200	5 5
ш	5.0	9.0	5 0	5.0	200	2 5	0=	2 4
	10 U	10 U	10 U	10 U	10 U	10.0	200	2 5
	10 U	10 U	10 U	J 01	U 01	10 11	1 00	200
	10 U	U 01	10 U	U 01	10 U	10 11	200	2 5
	10 U	10 U	10 U	10 U	10 U	10 U	10 11	= 5
	10 U	10 U	10 U	10 U	J 01	10 1	10 11	1 0
	10 U	10 U	10 U	10 U	10 U	10 01	200	2 5
	20 U	20 U	20 U	20 U	20 U	20 U	20 U	11 02
	10 U	10 U	10 U	10 U	10 U	10 17	10 17	40 11
	0 00	10 0	10 U	10 U	U 01	10 U	10 U	10 01
	0 01	10 U	10 U	10 U	10 U	10 U	U 0‡	10 11
	אט טו	NO OF	10 UR					
	40 11							
	10 (1	200	0 0	0:0	J0 0.	10 U	10 U	10 U
ETHYL PARATHION	10	2		001	0.00	10 U	10 U	10 U
	10 11	-		3	- C	1 0.7	1 0.3	1 12
	10 13		0 2 4	0 00	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	10 11	200	0 :	0 0L	10 U	10 U	10 U	10 U
	101		2 4	0.01	10 U	10 U	10 U	10 U
1	40 118	9	0 2	70.0	10 U	10 U	U 01	10 U
	10 11	×	¥0.02	10 UR				
		0 0	0.00	10 0	10 U	10 U	10 U	10 U
	2 5	2 2	0.00	10 U				
		O OL	10 U	10 U	10 U	10 U	10 11	200
		0.1 0.1	0.1 UJ	0.1 U	0.1 U			2
	0 2	10 U	10 U	10 U	10 U	10 1	10 11	100
	10 O	10 U	10 U	10 U	10 U	101	200	2 4
	10 U	10 U	10 U	10 U	10 U	10 11	200	0 0
						2	2 2	U DI





aoc	5 0	6 C	020		2	2	* 2	8 0
	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG
	200001	200001	2000Q1	200001	200001	200001	200001	200001
location	MPT-AC-GW-DPW03S	MPT-AC-GW-DPW04D	MPT-AC-GW-DPW04I	MPT-AC-GW-DPW05D	MPT-AC-GW-DPW05I	MPT-AC-GW-DPW05S	MPT-AC-GW-DPW06D	MPT-AC-GW-DPW06I
nsample	MPT-AC-GW-DPW03S-01	MPT-AC-GW-DPW04D-01	MPT-AC-GW-DPW041-01	MPT-AC-GW-DPW05D-01	MPT-AC-GW-DPW05I-01	MPT-AC-GW-DPW05S-01	MPT-AC-GW-DPW06D-01	MPT-AC-GW-DPW06I-01
matrix	GW-Crw-Crwcsy-Cr	MALCHANGE CONTRACTOR	Mr ACCOVED WORLD	Mr.I-AC-GW-DPW03D-01	3VF-DF-WO3F-U1	MP 1-AC-CON-LIPWOSO-SI	Mrt-Ac-Cw-Drwed-U	MrAc-car-property
	NORMAL	NORMAL	NORMAL	NORMAL	IAL	NORMAL	NORMAL	NORMAL
top_depth	6666-	6666-	6666-	6666-	6666-	6666-	8666-	6666-
	20000112	20000106	20000106	20000110	20000110	20000114	20000113	20000113
dat	01/12/00	01/06/00	01/06/00	01/10/00	01/10/00	01/14/00	01/13/00	01/13/00
cto_proj	0199 HANSEN T	HANSEN T		0199 HANSEN 1		0199 HANSEN T	0199	0199
	c 018	c 019	c 020	c 021	c 022	c 023	c 024	c 025
E	10 U	10 U	0 0	10 U	0 U	10 U	10 U	10 U
N-NITROSO-DI-N-BUTYLAMINE	10 U	U 01	10 U	10 U	10 U	10 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-NITROSODIETHYLAMINE	10 U	10 Ú	10 U	10 U	10 U	U 01	10 U	10 U
N-NITROSODIMETHYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-NI ROSOUPHENYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-NITROSOMODELO INTERNIT	0 01	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-NITROSOBIDEDIONE	0:	0 0	10 0	10 U	10 U	10 U	10 U	10 U
N.M.T.POSODYBEANDINE	0 2 4	0.00	0 01	10 U	10 0	10 U	10 U	10 O
NADHTHA! FARE	0.00	0 0	0 00	0 00	10 U	10 U	10 U	10 O
NITBOBENZENE	0.01	100	10 01	10 U	10 U	10 U	-10 O	10 U
O O TRICTUNE BUOGBUOTON TE	0.01	0 2	0 01	D or	10 0	10 U	10 U	10 D
O TO HOUSE THOST HOND IN THE	0 -	1 m	u r	1 03	3	1 03	- 0.0	1 5
D-COMPETITION AMINONATORENE	0.01	0 0	0 00	0 00	0.01	10 U	10 0	n ot
DENTACHIODOBENZENE	0.01	0 0 0	0.00	0.00	O OL	10 U	10 O	- 10 C
DENTACHLOROETHAND	0.01	0 2 3	0 00	0.00	10 0	10 U	10 O	10 U
PENTACHI ODONITBODENZENE	0.06	0 00	0 00	0 06	n oe	50 U	O 05	20 O
DENTACH OROBHENOI	0 = 0	0 0	0.01	0 01	10 0	10 U	D 02	10 U
PHENACETIN	2		0.00	0.00	0.00	0 01	10 0	0 0
PHENANTHRENE	2 5				000	0 0	0 2	0.00
PHENOL	10 U	10 1)	100	200	25			
PRONAMIDE	10 U	10 17	10 17	10 11	7 07	= 0	2 5	2 5
PYRENE	10 U	10 01	10 01	201	= 0	2 5	2 5	
PYRIDINE	10 U	10 U	U 01	U 01	10 01	10 11	107	= 5
SAFROLE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 10
SULFOTEPP								
HIONAZIN Besticidas Bassella								
4 4'-DDD	11 30 0	11 100						
4.4-DDE	0.00	0 600	0.00	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	0.05 U	0.05 U	0.05 11	1 200	2 300	0.000	0.00	0 600
ALDRIN	0.05 U	0.05 U	0.05 U	0.00	0.05 U	0.00	1 30	1 500
ALPHA-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 11
ALPHA-CHLORDANE	0.05 ს	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
APOCION-1916	0:	10	1 0	10	10	1 0	0.1	1 0
AROCLOR-1232		0 =		7	10	1 U	1 0	1 U
AROCLOR-1242	0 =				2:	ח	J. U.	1.0
AROCLOR-1248	2					0:	0	10
AROCLOR-1254	- T	10	=			0 -	0:	7
AROCLOR-1260	1.0	10	J C	107	7			0 =
BEIA-BHC	0 05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.00
DELIA-BAC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
FNDOSHIEAN	0.60.0	0.05 U	0.05 U	0.05 U	0.05 U	U 50'0	U 20.0	0.05 U
ENDOSULFANII	0.000	0.05 0	0.05 U	0.05 U	0.05 U	0.05 U	U 50.0	0.05 U
ENDOSULFAN SULFATE	0.00	U 50.0	0.05 U	0.00	0.05 U	0.05 U	0.05 U	0.05 U
ENDRIN	0.05 U	0.05 U	0.05 Ū	0.05 U	0.05 U	0.00	0.00 0	U 000
ENDRIN ALDEHYDE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	1 200	0 500
						2 22.2	0 22.5	0.00.0

from wed_sam.dbf from wed_res.dbf from wed_res.xls from g-tsql_server/mayportupload

	970	040	000	034	022	023	1024	025
aoc	; ; ;		0	ş	2	ر ا	ပ ပ	C BIDG
חסו	8LDG 200001	200001	200001	-			200001	200001
location	MPT-AC-GW-DPW03S	:-GW-DPW04D	MPT-AC-GW-DPW04I	-GW-DPW05D		MPT-AC-GW-DPW05S	MPT-AC-GW-DPW06D	MPT-AC-GW-DPW06I
nsample	MPT-AC-GW-DPW03S-01		MPT-AC-GW-DPW04I-01	MPT-AC-GW-DPW05D-01			MP1-AC-GW-DPW06D-01	MPI-AC-GW-DPW08-01
sample	MPI-AC-GW-DPW03S-01	SW-DPWO4D-01		10-0:00A-D-AA6			GW GW	GW
sacode	NORMAL	AL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
top_depth	6666-			6666	8666	6666-	6866-	6868-
bottom_dep ors_date	-9999 20000112		20000106	20000110	20000110	20000114	20000113	20000113
sample_dat	01/12/00	01/06/00		01/10/00	01/10/00	01/14/00	01/13/00	01/13/00
validated				000	000	0400	9	0100
cto_proj	0199 HANSEN T	HANSEN T	HANSEN	HANSENT	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c 018			c_021	c_022	c_023	c 024	c 025
ENDRIN KETONE	0.05 U	.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC (LINDANE)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.03	0.00
GAMMA-CHLORDANE	0.05 U	0.05 U	0 600	0.000	0 200	2 200	2 500	0.05 U
HEPTACHLOR	0.05 0	0 000	0 60.0	200	1 400	11 900	0.000	0.05 13
ISODBIN	0.00	0.69.0	0 600	2	2 200	0.1 U	0.1 0.0	01 UL
KEDONE		1 0.1	1 00	3 -	1 00	1 10	1 UZ	J. U.
METHOXYCHLOR	010	0.1 U	0.1 0	0.1 U	0.1 U	0.1 U	0.1 U	U 1.0
SULFOTEPP	10	10	٦ ٦	0.1	1.0	1 0	10	1.0
TOXAPHENE	2 U	2.0	2 U	2 U	2 U	2 U	2 U	2 U
OrganoPhPesticides (ug/L.)								
DIMETHOATE	10	1 0	1 U	1 00	100	2:	0	
DISULFOTON	10	10) -	10	0	0		
FAMPHUR	0	10	0 -	3:	50 -			
METHYL PARATHION		0 -		3-	3-			
THORAIE					=			-
Harbirdes (not)	9-						3	
2.4.5-T	10	100	1 03	10	10	10	10	10
2.4.5-TP (SILVEX)	0.1	10	10	10	10	10	10	1 0
2.4-D	4 0	4 U	0 4 U	4 0	D 4	7 P	4 0	4 0
DINOSEB	0.6 U	0.6 U	0.6 U	U 9/0	0.6 U	0.8 U	0.6 U	0.6 U
Inorganics (ug/L)								
ALUMINUM	161	73.6 U	73.6 U	73.6 U	73.6 U	19.5 U	15.5 U	26.2 U
ANTIMONY	3.1 0	2.6 U	2.6 U	2.8 0	2.6 U	0 1.2	2.3 U	0 6.7
PABILIM	0 67	2.7.0	2.7 U	0 /2	0 7.7	0 6.7	2.3 0	2000
BERVILLIM	0.51	5,0	0 31 11	0.5	200	1 60	0.20	200
CADMILIM	0.20	250	11 00	2000	1 020	120	11 20	0.25
CALCILIM	19900	28300	90000	82400	48900 1	119000 1	38600 1	73000.1
CHROMIUM	2.6 U	24 U	16.0	18 U	1.6 U	2.6 U	2.6 U	26 U
COBALT	1.5 U	0.7 U	0.7 U	U 2.0	0.7 U	1.5 U	1.5 U	1.5 U
COPPER	29 U	1,1 U	1.1 U	1.1 U	1.1 U	2.9 U	2.9 U	2.9 U
IRON	1560 J	856 J	1110 J	120 U	269 J	1470 J	262 U	105 U
LEAD	14 U	1.5 U	1.5 U	1.5 U	1.5 U	1.4 U	14 0	1.4 U
MACNEGICA	1 3 63	47300 J	40900 J	18900 J	9940 J	12000 J	26600 J	13900 J
MERCURY	0.031	003 11	1 200	003 11	2000	0.034	0.034 11	13.8 5
MOLYBDENUM						2		
NICKEL	1.7 U	1,3 U	1.3 U	1.3 U	1.3 U	1.8 U	1.7 U	1.7 U
POTASSIUM	536 U	61600 J	24800 J	10800 J	F 0609	22800 J	26600 J	6840 J
SELENIUM	3.1 U	4.7 U	4.7 U	4.7 U	47.0	3.1 U	3.1 U	3.5
SILVER	19 U	1.6 U	1.6 U	1.6 U	1.6 U	1.9 U	1.9 U	1.9 U
SODIOM	15700 J	658000	293000	86500	15500	30900 J	22600 J	18900 J
TALLIOM	94 U	7.1 U	7.1 U	7.1 U	7.1 U	9.4 U	9.4 U	9.4 U
VANADIUM	0 00	0 62	2.5 0	25 0	2.5 U	0 94	4.6 U	46 0
ZINC	21.1 U	4.6 U	14 U	16.7 U	82 U	47.0	44 0	0 (2
Miscellaneous Parameters (mg/L)					2 42		2	
CYANIDE (ug/L)	3.0	3.0	3 (3.0	3 0	3.0	3.0	3 (



order	018	019	020	021	022	023	024	025
aoc	U	U	U	Ü	ن	Ü	0	Ü
no	BLDG	вгре	BLDG	BLDG	BLDG	BLDG	вгре	BLDG
round	200001		200001	200001	200001	200001	200001	2000Q1
location	MPT-AC-GW-DPW03S	MPT-AC-GW-DPW04D	MPT-AC-GW-DPW04I	MPT-AC-GW-DPW05D	MPT-AC-GW-DPW05I	MPT-AC-GW-DPW05S	MPT-AC-GW-DPW06D	MPT-AC-GW-DPW061
nsample	MPT-AC-GW-DPW03S-01	MPT-AC-GW-DPW04D-01	MPT-AC-GW-DPW04I-01	MPT-AC-GW-DPW05D-01	MPT-AC-GW-DPW05I-01	MPT-AC-GW-DPW05S-01	MPT-AC-GW-DPW06D-01	MPT-AC-GW-DPW06I-01
sample	MPT-AC-GW-DPW03S-01		MPT-AC-GW-DPW04I-01	MPT-AC-GW-DPW05D-01	MPT-AC-GW-DPW05I-01	MPT-AC-GW-DPW05S-01	MPT-AC-GW-DPW06D-01	MPT-AC-GW-DPW06I-01
matrix	ΜĐ			GW			GW	GW
sacode	NORMAL			NORMAL	NORMAL		NORMAL	NORMAL
top_depth	6666-		6666-	6866-		6666-	6686-	6666-
bottom_dep	6666-	6666-	6666-	6666-	6666-	6666-	6666-	6666-
gıs_date	20000112	20000106	20000106				20000113	20000113
sample_dat	01/12/00	01/06/00	01/06/00	01/10/00			01/13/00	01/13/00
validated							-	
cto_proj	0199	0199	0199	0199	0199	0199	0199	0199
pro_manag	HANSEN,T	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c_018	c_019		c_021	c_022	c_023	c_024	c_025
NITRATE	0.1 U			010	U 1.0	0.2	0.1 U	0.10
NITRITE	0.1 U			0.1 U				
SULFATE	f 89			27	10	110 J	34.5	14 J

Colored Heat Colo	order	900	1007	000	GCC	000	200	550	000
BACKER B	aoc	ا	ا	ا	ا (30	i	ا	3 U
The component of the	по	BLDG	BLDG	BLDG	BLDG	BLDG	91.00	BLDG	BLDG
METACONEDIMENTO INTELÉCOLOGIANOS I	puno	200001	200001	200001	200001	200001	200001	200001	200001
The control of the	- Contraction	A TOTAL	TOTAL OF THE PERSON					10000	1000
The control of the	incaunii	MPI-AC-GW-DPWO/D	MPI-AC-GW-DPWO/I					MFI-AC-GW-DFW09D	MPI-AC-GW-DPW09
Column		TO-COMPAND OF HAM	MILL ACCUMUNITY OF THE					MF1-AC-GW-DFW08D-01	MFI-AC-GW-D-WG
Column C	matur.	W.C.	CW.					WILL TO COUNTY OF THE PROPERTY	INT 1-AC-CAN-D-Was
100 100	sacode	NORMAL	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
Comparison Com	top depth	6666-	6666-		6666-	6886-	- 6868	6666-	5888
100 100	bottom dep	6666-	6666-		6666	6666-	5000	5000	6666
Decision dis date	20000112	20000112	20000112	20000111	20000111	20000111	20000114	20000114	
Colore	sample dat	01/12/00	01/12/00	01/12/00	01/11/00	01/11/00	01/11/00	01/14/00	01/14/00
Colored Moreon	validated			_					
MANIESN T MANI	cto_proj	0199	0199	0199		0199	0199	0199	0199
1	proj manag	HANSEN.T	HANSEN,T			HANSEN,T	HANSEN,T	HANSEN T	HANSEN
	sort	c_026	c_027			c_030	c_031	c 032	c 033
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volatile Organics (ug/L.)				ı			1	ì
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,1,1,2-TETRACHLOROETHANE	10		10		10	10		10
1	1,1,1-TRICHLOROETHANE	0 1	J L	10		10	10		10
1	1,1,2,2-TETRACHLOROETHANE	10	10	J C	J C	10	0 1	0 -	7
1	1,1,2-TRICHLOROETHANE	1 U	10	0 F	10	10	7 1	10 +	
1.0	1,1-DICHLOROETHANE	1 C	10	10	n r	10	10	10	0.33 J
1	1.1-DICHLOROETHENE	10	10	10	10	10	101	7	L 81.0
1	1,2,3-TRICHLOROPROPANE	10	10	10	10	1 -	10	=+	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	1,2-DIBROMO-3-CHLOROPROPANE	1 W	3	31	3-	101	111	-	2 =
10	1,2-DIBROMOETHANE	U L	10	1		1 1	=======================================	-	2 -
10 10 10 10 10 10 10 10 10 10 10 10 10 1	1,2-DICHLOROETHANE	10	1 0	7		=			
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	1,2-DICHLOROPROPANE	10	-	= +	=	= +			
10 1 10 11 10 11 10 10 10 10 10 10 10 10	2-BUTANONE	10 11	10 (1	10 11	1 0,	100		- 5	
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	2-CHLOROETHYL VINYL ETHER	3 -		-		2		2	2
10	2.HEXANONE	2					0 -	0	חר
1	2-CHI OBODDONE	2	0 :	0.0	0.01	0 01	ט טר	O 04	10 0
20	4-MFTHYL-2-DENTANONE	190			0 - 3		ם ר	1.0	10
2	ACETONE		0 2	000	0:0	ם מני	0 01	J0 OL	10 O
10	ACETONIE E	2 6	0 2	0 01	0.01	0.01	0 01	10 OL	9
10	ACROI FIN	25 07	20 02	20 UK	30 UZ	20 UK	20 UK	20 UR	20 UR
10 10 10 10 10 10 10 10 10 10 10 10 10 1	ACRYLONITRILE	11 01	10 11	100	500	200	NO 01	NO 01	35
10 10 10 10 10 10 10 10 10 10 10 10 10 1	BENZENE	-	-	2 -	2		0.2	0.0	ח חו
10 10 10 10 10 10 10 10 10 10 10 10 10 1	BROMODICHLOROMETHANE						ח	0	7
2 U 2 U <td>BROMOFORM</td> <td>2</td> <td></td> <td></td> <td></td> <td>0</td> <td>1.0</td> <td>1.0</td> <td>3</td>	BROMOFORM	2				0	1.0	1.0	3
10 0.24 U 0.5 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 1 U	BROMOMETHANE		0:		10	10	10	10	7
10 10 10 10 10 10 10 10	CABBON DISTILLED	2 0	2.0	2 U	2 U	2 U	2 U	2 U	2.0
10 10 10 10 10 10 10 10 10 10 10 10 10 1	CARBON TETRACHI OBINE		0.24 J	0.15 J	0.97	10	1 U	0.13 J	0.2 J
10 10 10 10 10 10 10 10 10 10 10 10 10 1	CHI DEDENZENE		0.	1 0	10	1 U	J U	1 0	1 0
10 10 10 10 10 10 10 10 10 10 10 10 10 1	CHIODODISSONOMETHANE		10	10	1 0	10	10	1 U	10
10 10 10 10 10 10 10 10 10 10 10 10 10 1	CHLORODIEN CINCONEL I TANE		0.5	1 0	1 0	1	1 U	1 0	1.0
10	CHIODOGODA		0:	10	1 0	10	1 U	1 0.1	1 0
10	CHIOROMETHANE		0	0 -	0.11 J	0.29 J	1 C	1 U	1 U
10	CHIOROPRENE			0 -		10	1 U	1 0	10
10	CIS-12-DICHI OROETHENE		0 - 3		0	1.0	10	10	10
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	CIS-1,3-DICHLOROPROPENE	2 -	0	0.50	n en	0.5.0	0.5.0	0.5 U	12
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	DIBROMOMETHANE	-				3	0:	1.0	10
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	DICHLORODIFLUOROMETHANE	= -					0	10	J C
50 UR 1 U	ETHYL METHACRYLATE	1	=			3	50 -	10	2
50 UR 10 UR 1	ETHYLBENZENE	2 -					7	10	7
1 U 1 U <td>SOBUTANOL</td> <td>50 UR</td> <td>50 118</td> <td>9</td> <td></td> <td>0 - 5</td> <td>0 -</td> <td>0</td> <td>2</td>	SOBUTANOL	50 UR	50 118	9		0 - 5	0 -	0	2
120 400 1300 1400 1400 1500 1700 1	METHACRYLONITRILE	10		5=	30 OK	90 OK	30 UK	SO UR	50 UR
10 10 10 10 10 10 10 10 10 10 10 10 10 1	METHANE	120	400	1300	7400	300	50	1 00	5
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1U 1U 1U 1U 1U 4 UR 4 UR 4 UR 4 UR 4 UR 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	WETHYL TERT-BUTYL ETHER					0 1	0	10	1 C
4 UR 1 U	METHYLENE CHLORIDE	10	10	111		-			
10 10 10 10 10 10 10 10 10 10 10 10 10 1	PROPIONITRILE	4 UR	4 UR	4 IIR	2 - A	01. 7	0.	O	ח -
10 10 10 10 10 10 10 10 10 10 10 10 10 1	STYRENE	10	10			10 t	4 O.	4 UK	4 UR
	TETRACHLOROETHENE	10	101	,=	2 -	3	5	2	7
	TOLUENE	0 1)= -\-		2:	ם כ	1 U	J C



from wed_sam.dbf from wed_res.dbf from wed_res.xts from qilsql_serverumayportupload

Decains Decains	BLDG 2000C1 7D MPT-AC-GW-DPW071-01 7D-01 MPT-AC-GW-DPW071-01 7D-01 MPT-AC-GW-DPW071-01 GW NORMAL -9899 -9899 20000112 D1/1200		BLDG 200001	BLDG 200001	BLDG 2000Q1	8LDG 2000Q1	BLDG 200001
THER RACENE MINE WANE			20002		7007		
ETHER RACENE MINE WANE			MPT-AC-GW-DPW08D	MPT-AC-GW-DPW08I	MPT-AC-GW-DPW08S	MPT-AC-GW-DPW09D MPT-AC-GW-DPW09D-01	MPT-AC-GW-DPW09I
NORMAL -9999 -999 -999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -	NORMAL -9899 -9999 20000112 01/1200		MPT-AC-GW-DPW08D-01	MPT-AC-GW-DPW08I-01 GW	MPT-AC-GW-DPW08S-01 GW	MPT-AC-GW-DPW09D-01 GW	MPT-AC-GW-DPW09I-0 GW
20000132 20000132 01/12/00 0199 HANSEN,1 C 026 INNE INNE WANE	-9999 2000112 01/12/00	NORMAL -9999	NORMAL -9989	NORMAL -9999	NORMAL -9999	NORMAL -9999	NORMAL -9999 -9999
HANSEN, FIER C 026 ACENE NE NE E E E E E E E E E E E E E E E		-9559 20000112 01/12/00	20000111 (01/11/00	20000111 01/11/00	20000111 01/11/00	20000114 01/14/00	20000114 01/14/00
RACENE C 226 GINE AINE VANE	0199	0199	0199	0189	0199	0199	0199 HANISEN T
RACENE MINE	c 027	c_028	c 029	c_030	C_031	c_032	c_033
RACENE MINE WANE	Ш	10 U	10 U	10 U	10 U	양	10 U
RACENE MINE WANE	10 U	19 C	10 N	10 U	10.0	10 0	10.0
ANE.	0 62	25 11	25 U	25 U	25 0	25 0	25 U
AINE AINE AINE VANE	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR
MINE MINE MINE MINE MINE MINE MINE MINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ANE VANE	10 U	10 U	10 C	10 C	10 U	49 C	10 C
VANE	50 UR	50 UJ	50 CE	20 02	20 05	20 0	900
VANE	0.00	200	10 0	10 0	100	10 U	10 U
VANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
VANE	10 U	10 U	10 U	10 U	10 U	10 U	10 C
IANE	10 U	10 U	10 U	10 U	10 U	- 10 C	10 0
ANE	0.00	0 00	10.0	000	200	0 00	10.0
VANE	20.0	10 0	D 01	10 0	10 0	10 U	10 U
VANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ANE	10 U	10 U	10 C	10 C	10 U	10 0	10 0
ETHER 4THALATE ALATE	200	0.00	10 0	200	10 05	2 2 2	200
4THALATE ALATE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ALATE	0.5	5.0	5.0	5 U	5 U	5.0	5 U
	10 U	10 U	10 U	10 C	10 U	10 C	10 C
CHI OROBENZII ATE	0.00	10 01	10 0		0.00		2 5
	D 0F	10 U	10 U	10 U	10 U	10 U	100
TE	U 01	10 U	10 U	10 U	10 U	10 U	. n et
	10 U	10 U	10 C	10 U	10 U	10 U	우 (
DIBENZO/A.HJANTHRACENE 10 11	70 07	20.02	70 0	20 0	20 0	20 0	20 0
	0 OF	10 U	10 U	0 0	10 U	10 0	2 0
	10 U	10 U	10 U	10 U	10 U	10 U	10 UR
DIMETHYL PHTHALATE 10 UR	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR	10 U
	100	- 0	17 00	- 4	ç	. 0	
ETHYL METHANE SULFONATE 10 U	200			200			2 5
	10	10	10	10	ĵ.r	1 00	2 3
	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	10 U	10 U	10 U	10 U	10 U	10 U	10 U
HEXACH ODOBITADIENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	10.02	10 U	0 01	0 00	0 00	10 U	19 C
HEXACHLOROETHANE 10 U	10 0	10 1	= 6	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 CK	10 UK
	J0 0L	10 U	10 0	10 0	10 0	10 11	2 = =
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	-10 C	10 U	10 U	10 U
SOPHORONE	Ç		0.1 U.	0.1 U.	01 U		
		2 5	0 01	0 0 0	0 00	0.00	0 5
METHAPYRILENE 10 U	1000	5 6	2 =	2 5	0 00	000	200





ou round focation risample sample matrix sacode tipp depth		<u> </u>	_		2	•		2
ound sample sample sample sample sacde pp depth	BLDG		BLDG		BLDG	BLDG	BLDG	BLDG
sarique ample accode ppdepth	MPT-AC-GW-DPW07D	2000Q1 MPT-AC-GW-DPW071	MPT-AC-GW-DPW07S	MPT-AC-GW-DPW08D	Z000Q1 MPT-AC-GW-DPW08I	Z000Q1 MPT-AC-GW-DPW08S	Z000Q1 MPT-AC-GW-DPW09D	2000Q1 MPT-AC-GW-DPW09I
laux acode p_depth himm den	MPT-AC-GW-DPW07D-01	SW-DPW07I-01	MPT-AC-GW-DPW07S-01		MPT-AC-GW-DPW08I-01	MPT-AC-GW-DPW08S-01	MPT-AC-GW-DPW08D-01	MPT-AC-GW-DPW09I-01
officer dep	NORMAL	AL	NORMAL		GW NORMAL	GW NORMAL	NORMAL	GW
	6666-		6666-		6666-	6666-	6666- 6666-	6666- 6666-
gıs_date sample_dat	20000112	20000112	20000112	20000111	20000111	20000111	20000114	20000114
validated	400							
do proj proj manag	HANSEN,T	HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	D199 HANSEN,T	0189 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T
Sort	c 026		c_028	c 029	c 030	c_031	c_032	c_033
WEINTE MEINANE SULFONALE	0.00	2 5 5	10 0	10 0	10 0	190	10 U	10 0
I-NITROSO-DI-N-PROPYLAMINE	0.00	10 0	10 1	0 01		2 9	200	
I-NITROSODIETHYLAMINE	10 U	10 U	10 U	10 U	10 0	100	10 U	10 U
N-NITROSODIMETHYLAMINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
I-NI ROSODIPHENYLAMINE	10 0	10 C	10 C	10 U	10 U	D 0	10 U	10 U
-NITROSOMORPHOLINE	200			720		10 00	200	0.00
N-NITROSOPIPERIDINE	10 Ŭ	10 U	10 U	10 0	000	100	200	200
-NITROSOPYRROLIDINE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 0
APHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
O O TRIETHY! BHOSBHORDTHIOATE	10 C	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUDINE	0 - 0	10 5	10	10	10	10	1 0.1	1 0.1
(DIMETHYLAMINO)AZOBENZENE	200	200	2 9 0	1000	100	0 01	0.00	10 U
NTACHLOROBENZENE	10 U	10 U	10 0	10 0	10 00	10 0	0.00	10 0
NTACHLOROETHANE	50 U	20 05	50 U	50 U	D 05	n os	50 U	50 U
PENTACH OROPHENOI	0 0	0 0	7 P	10 C	10 U	10 U	10 U	10 U
ENACETIN	0 00	900	200	0 00	10 0	10 01	9 9	100
ENANTHRENE	10 U	10 U	10 01	10 U	10 0	200	2 9	
PHENOL	10 U	10 U	10 U	10 U	10 U	10 CF	10 U	10 C
ONAMIDE	10 0	10 U	10 U	10 U	10 U	10 U	10 U	10 U
RIDINE	10 0	9 4	10 U	10 U	D (2	-10 U	10 U_	10 U
FROLE	200		0 00	10 0	10 0	10 0	10 U	10 U
SULFOTEPP			2	2		0 00	n or	70.0
THIONAZIN Perticides BCB= 1.cdl 1								
4,4'-DDD	0.05 U	11 50 0	11 500	300	11 30 0	11 300		
:-DDE	0.05 U	0.05 U	0.05 U	50.00 U.J	0.00	0 60.0	0.05 U	0.05 0
TOD-1	0.05 U	0.05 U	0.05 U	0.05 UJ	U 90'0	0.05 U	0 005 U	0.00
DHA-BHC	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
PHA-CHLORDANE	0 600	0.05 0	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
OCLOR-1016	1 0	10	11.	1111	0.00	0.05 0	0.00	0.05 U
OCLOR-1221	1 0	n t	0 -	1 100				
OCLOR-1232	1 U	1.0	1.0	1 0.1	0,1	10	2 -	
OCI OR-1248	0:	7	10	1 0.1	J U	1 0	1 0	10
OCLOR-1254				100	1 C	1 U	1 0	1 U
AROCLOR-1260	10			3		0:	J .	1 0
TA-BHC	0.05 U	0.05 U	0.05	111 400	11 400	0 1	1 0	1 0
DELTA-BHC	0.05 U	0.05 U	0.05 U	0.05 U.J	0.00	0 500	0 600	0.00
LDRIN DOS: 11 CARL	0.05 U	0.00	0.05 U	0.05 UJ	0.05 U	0.05 U	0.00	0 500
DOSULFAN II	0.05 U	D 500	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	U 20.0
ENDOSULFAN SULFATE	0.000	0 000	0.05 0	0.05 U.	0.05 U	0.05 U	0 002 U	0,05 U
ENDRIN	0.05 U	0.00	0.03	50.0	0.05 0	0.05 U	0.05 U	0.05 U
ENDRIN ALDEHYDE	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.00	0.05 0	U 400

acc C C C C C C C C C C C C C C C C C C			<u> </u>		3 0	<u> </u>	3 0	3 0
								<u>.</u>
		BLDG	BLDG	ဗ္ဗ	BLDG	BLDG	BLDG	BLDG
							200021	2000Q1
							MPT-AC-GW-DPW09D	MPT-AC-GW-DPW09I
		MPT-AC-GW-DPW07I-01		MPT-AC-GW-DPW08D-01	MPT-AC-GW-DPW08I-01	MPT-AC-GW-DPW08S-01	MPT-AC-GW-DPW09D-01	MPT-AC-GW-DPW08I-01
							MPT-AC-GW-DPW09D-01	MPT-AC-GW-DPW091-0
		Ø.	ØW.	0W	GW	OW.	OW.	GW
		NORMAL	NORMAL		NORMAL	NORMAL	NORMAL	A NOT WELL
		6666-	200	222	5555-	200	SSSS-	200
		-6666	6666-	6666-	-6666	6666-	6666-	6666-
	112	20000112	20000112	20000111	20000111	20000111	20000114	20000114
	90	01/12/00	01/12/00	01/11/00	01/11/00	01/11/00	01/14/00	01/14/00
		9810	6610		AALO	BALO	AALO	BALO
		HANSEN,T	HANSEN,T	L'N.	HANSEN,T	HANSEN, T	HANSEN,T	HANSEN, T
		c 027	c 028	c 029	c 030	c 031	c 032	c 033
NDRIN KETONE	11 50 0	ı	11 300	0.05 111	l	L	l	L
ALMAN DUD A INDANIE	0.00	0 000	2000	20.000	0 200	2 200	2000	0 3
AMMA-BIC (LINDANE)	0.05	0.00	0.05 U	0.0 2 UJ	0.05 U	0.05 U	0.05 U	0.05 U
AMMA-CHLORDANE	0.05 U	0.05 U	O 50.0	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
EPTACHLOR	0 05 U	0.05 U	0.05 U	U 50'0	0.05 U	0.05 U	0.05 13	0 00 0
HEPTACHLOR EPOXIDE	0.05 U	0.05 U	0.05 11	0.05 11.1	11 500	0.05 (1)	11 50 0	11 500
NIGOC		0.4		300	200	2000		0
Linder	3	3	3				טייט ריט	0.1
EFUNE	1 03	1 03	1 03	1 W	1 0.7	1 0.1	1 0.7	1 02
ETHOXYCHLOR	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U
JUFOTEPP	11		-	= -	1 1		11 +	-
DYADHENE								- 1
CANAL HEINE	2.0	7 N	2 0	Z UJ	2.0	2 U	2.0	2 N
ganoPhPesticides (ug/L)								
METHOATE	10	10	7.	=======================================	11	111	1-1	=
SUI FOTON	= +	- 1						
A SOUTH OF THE PROPERTY OF THE			0	2	2	2	חר	סר
MPHUR	1.0	1 0	7				- -	□
THYL PARATHION	10	10	10	10	11	1 1		-
ORATE	10	1 1	1 :	-	1 -		=	=
THIONAZIN	= +		-					
hicides (not)			2					0
C. T.								
10.	1.0	10	1.0	10	_ 	٦ ٦	70	- -
S-TP (SILVEX)		- -	10	1 0	10	10	10	-
2,4-D	4 0	∪ 4	7 1	4 11	4 11	4 !!	4 11	
DINOSEB	11 80	- 90	1. 40					
canics (un/t.)		200	25	0.00	000	0.00	0 00	0.0 0
MINIM	11 805	14.0		.; 0				
Tin County	0 0 0 0	44.9 U	ZU.4 U	/3.6 U	73.6 U	73.B U	15.5 U	15.5 U
I MONT	1.6 U	2.4 U	2 U	2.6 U	2.6 U	2.6 U	1.6 U	1.6 U
ARSENIC	2.5 U	25 U	2.9 U	2.7 U	2.7 U	2.7 U	12.2 U	2511
RIUM	2.9 U	3.1 U	27 11	1711	1511	48	205	200
RYLLIUM	02.11	0.24	17 60		200	2000	500	/6
DMILIM		17.0	0.20	200	0.50	0.39 U	0.2 U	0.2.0
	0 /0	0.70	0.7.0	0.2 U	0.2 U	0.25 U	0.7 U	0.7 U
TOOM IN THE PROPERTY OF THE PR	43/00 J	C 0008/	76100 J	17100 J	24900 J	100000	103000 J	91300 J
ROMIUM	3.3	26 U	2.6 U	3.1 U	1.9 U	1.6 U	2.6 U	26 U
COBALT	1.5 U	15 U	1.5 U	U 7.0	0.7 U	07.0	9	15.11
)PPER	2.9 U	29 U	29 (1	1111	14.11	7	7 11	
NO	274 11	160 1	108 11	20 4 17	22 5 12			2.9 0
LEAD		2 .	0 2	08.1 0	0 6.77	C 854	3170 J	63.6 U
MIGUNO	-	O *:	1.4 U	J. 6.L	1.5 U	1.5 U	1.4 U	14 U
TO THE PART OF THE	788M J	J 00//L	10500	19000 J	25100 J	15000 J	126000 J	30100 J
NGANESE	134 J	14.3 J	74.2 J	9.2 J	7.8 J	L 8 69	67.1	47.4
RCURY	0.031 U	0.031 U	0.031 U	0.03	11 500	11 800	0.032	1 1000
YYBDENUM					3	0.000	0.020	0,031
X.E.	17 11	17 11	11 2 8					
TASSITM			0 / 1	J.3 U	1.3 U	1.4	4.3 U	17 U
SEI ENIIM	5,000	L OUGH	C 0818	31800 J	32500 J	5100 J	107000 J	6520 J
	3.1.0	3.1 U	3.1 U	4.7 U	4.7 U	4.7 U	3.1.0	3111
SILVER	19 U	19 U	1.9 U	1.6 U	16 U	181	19 -	
MOION	89100 J	13300 J	15600	154000	00000	14400	0.00000	0 6 1
THALLIUM	9.4 ∪	9.4 13	11 76	7 4 11	74.11	TO SECOND	r noncoi	/BZW J
	46.11	48.11	2 4 4		0:		9.4 U	940
VANADIUM		200		7.5 0	2.5 U	2.5 U	4.6 U	4.8 U
SNIZ		2.1 0	2.1 U	6.2 U	2.8 U	0.75 U	2.1 U	2.1 U
College Control of the Control of th	40.07	U 2.21	8.2 U	17.6 U	16.5 U	15.9 U	U 6.2	188
Culturiones relatington (IIIght.)								
CYANIDE (ug/L)	3 0	3.0	3.13	11 66	11 86	- 00		



order	026	027	028	029	030	031	032	033
aoc	<u>U</u>	<u>ပ</u>	U	<u>0</u>	<u>ပ</u>	<u>ပ</u>	ပ	<u>ပ</u>
no	BLDG							
round	200001	200001	200001	200001	2000Q1	200001	200001	200001
location	MPT-AC-GW-DPW07D	MPT-AC-GW-DPW071	MPT-AC-GW-DPW07S	MPT-AC-GW-DPW08D	MPT-AC-GW-DPW08I	MPT-AC-GW-DPW08S	MPT-AC-GW-DPW09D	MPT-AC-GW-DPW09I
nsample	MPT-AC-GW-DPW07D-01	MPT-AC-GW-DPW07I-01	MPT-AC-GW-DPW07S-01	MPT-AC-GW-DPW08D-01	MPT-AC-GW-DPW08I-01	MPT-AC-GW-DPW08S-01	MPT-AC-GW-DPW09D-01	MPT-AC-GW-DPW09I-01
sample	MPT-AC-GW-DPW07D-01	MPT-AC-GW-DPW07I-01	MPT-AC-GW-DPW07S-01	MPT-AC-GW-DPW08D-01	MPT-AC-GW-DPW08I-01	MPT-AC-GW-DPW08S-01	MPT-AC-GW-DPW09D-01	MPT-AC-GW-DPW09I-01
mathx	ВW	GW	GW	GW	GW	ВW	ВW	GW
sacode	NORMAL							
top_depth	6666-	6666-	6666-	6666-	6666-	6666-	6666-	6666-
bottom_dep	6666-	6666-	6666-	6666-	6666-	-9999	6666-	6666-
gıs_date	20000112	20000112	20000112	20000111	20000111	20000111	20000114	20000114
sample_dat	01/12/00	01/12/00	01/12/00	01/11/00	01/11/00	01/11/00	01/14/00	01/14/00
validated								
cto_proj	0199	0199	0199	0199	0199	0199	0199	0199
proj manag	HANSEN.T	HANSEN,T						
sort	c_026	c_027	c_028	c_029	c_030	c_031	c_032	c_033
NITRATE	0.1 U	010	0.1 U	0.1 U	0.1 U	0.1 U	010	0.1.0
NITRITE	0.1 U	010	0.10	0.1 U	0.1 U	0.1 U	0.1.0	0.1 U
SULFATE	5 U	26 J	25 J	30	29	74	ر 270 کا	71.3

						1		
	\$20 C	038	036	037	038	039	040	041
no	5018	9	2	ة د	و د	<u>.</u> ة د	<u>.</u> ن د	(i
round	200001	-	-	20000	200001	2000	30000	20000
location	MDT.AC.CM/DDM/101	MOT AC CIAMODIAMA	MOT AC CIA DOIANO	TOTAL POLICE CONTRACTOR	100000	1 70007	70007	200002
nsample	MET. AC CIA/ DEIANOLOS		MATI-AC-GW-DPWIZ	MPI-AC-GW-DPW0ZI	MPI-AC-GW-UP-WUZ	MPI-AC-GW-DPWdZ	MPT-AC-GW-DPW04S	MPT-AC-GW-DPW04S
el cues	MOT AC CALCOLOGICAL	Indiana Control	MrAc-Gw-DPVIZI-01	MFI-AC-GWUPW0ZI-U1	MPI-AC-GWUPW0ZI-01-AVG	MP I-AC-GWDPW02I-01-D	MPT-AC-GWDPW04S-01	MPT-AC-GWDPW04S-01-AVG
matux	CW CW	יייייייייייייייייייייייייייייייייייייי	10-12) AA -01-AA	MFI-AC-GW-UPWGF-UI	MPI-AC-GWUPWUZI-UI-AVG	MPI-AC-GW-DUGS	MPT-AC-GW-DPW04S-01	MPT-AC-GWDPW04S-01-AVG
sacode	NORMAL	NORMAL	NORWA	<u>a</u>	AVS.	a di	O.W.	OW.
top_depth	6666-			6666-	9666		0000	9000
bottom_dep	6666-			6666-	6666-		0000	0000
gis_date	20000113	_	_	20000106	20000108	20000106	20000112	20000112
Sample dat	01/13/00	01/11/00	01/11/00		01/06/00	01/06/00	01/12/00	01/12/00
	0							
pro_manag	HANSENT				0199 HANSEN T		0199	0199
sort	c 034	c 035	c 036	c 037	C 038	C 030	A DAO	HANSEN, I
Volatile Organics (ug/L)	י י							5
1.1.1.2-TETRACHLOROETHANE	1 0	10	J L	10	10	11+	111	
1.1,1-TRICHLOROETHANE	10	10	10	10	1 1		2	
1.1.2.2-TETRACHLOROETHANE	1 0	10	10	J 1	10		=	
1.1,2-TRICHLOROETHANE	1.0	1 0	J L	10	0.1	10	= +	
1,1-DICHLOROETHANE	10	10	1 U	0.93	0.875	0.82	2	
1.1-DICHLOROETHENE	1 0	1 U	10	0.36	L 355.0	0.35		
1,2,3-TRICHLOROPROPANE	יים	1 n	10	10	111			
1.2-DIBROMO-3-CHLOROPROPANE	1 0	-1 CZ	1 03	3	1 10	=		
1,2-DIBROMOETHANE	1 0	1 0	10	10	1.0	= -	3 -	
1,2-DICHLOROETHANE	1.0	D +	1 n	10	1 = -	-	-	
1,2-DICHLOROPROPANE	1 0	10	10	10				
2-BUTANONE	10 U	10 U	10 01	10 11	1 0	2	- 4	0 :
2-CHLOROETHYL VINYL ETHER	10	10	===	2 -	2 -	22.4		0.00
2-HEXANONE	10 U	10 U	11 04	10 01	-	0.00	0 - 0	0
3-CHLOROPROPENE	10	===	-	2		0 01	ח פר	10 U
4-METHYL-2-PENTANONE	10 U	10 11	1 0	- 4		0 -	10	10
ACETONE	10 U	11 11	=======================================			0.01	10 O	10 U
ACETONITRILE	20 UR	20 118	90.00	2000	0.00	O OL	10 U	10 U
ACROLEIN	10 UR	10 UR	10 13	20 07	20 UK	20 UK	20 UR	20 UR
ACRYLONITRILE	10 U	10 11	10 11	5 5	100	NO 01	10 UK	10 UR
BENZENE	0.1		-	-		0.00	ט פר	10 U
BROMODICHLOROMETHANE	2) = -				0	1.0	1 0
BROMOFORM	-					1 0	1 0	1 0
BROMOMETHANE	2				1 0	10	1 U	1 0
CARBON DISULFIDE	0.48	-	0.7	0.7	2 0	2 0	2 U	2 U
CARBON TETRACHLORIDE	-				10	10	1 U	0.35 J
CHLOROBENZENE				10	1.0	1 0	1 0	1 C
CHLORODIBROMOMETHANE	-		0 :	0	1 U	1 0	1 0	1 C
CHLOROETHANE					10	10	1.0	1 0
CHLOROFORM			0:	- O	10	1.0	1 C	10
CHLOROMETHANE	-	40	0	10	10	1 0	1 0	10
CHLOROPRENE	10				0:	10	1 0	J U
CIS-1,2-DICHLOROETHENE	0.5 U	198	11 40	0 - 6	10	- T	1 0	יוני
CIS-1,3-DICHLOROPROPENE	1 0	חד	25		רנים	0.5 0	0.5 U	0.5 U
DIBROMOMETHANE	1 U	10	ח	2			0	1 0
DICHLORODIFLUOROMETHANE	1.0	JU L	1 00	100				1 0
ETHYL METHACRYLATE	1 0	1 U	10		3=	3 -		10
SOBITANO	1 U	1 0	10	0.1				
METHACRYI ONITRIE	50 UR	50 UR	50 UR	50 UR	50 UR	SO UR	20.05	0.0
METHANE	1 00	- T	1 03	1 W	1 0.1	10,1	5 =	SO DE
METHYL IODIDE	950	460	390				110 1	844
METHYL METHACRYLATE	2 =	2 =	2	1 C	1 0	1 0	10	10
METHYL TERT-BUTYL ETHER		7	J C	1 C	1.0	10) T	
METHYLENE CHLORIDE	101							
PROPIONITRILE	4 UR	4 18	0 1	7	10	1 U	1.0	10
STYRENE	10		4 UK	4 CK	4 UR	4 UR	4 UR	4 UR
TETRACHLOROETHENE	J L	10		2 =	0 =	0 -	10	D F
IOFUENE	J U	1 0	10	2 2			ח	10
					-	2	n L	7
Annual Control of the								



from wed_sam dbf from wed_res dbf from wed_res xis from q lsqLserve.cmayport\upload

Colored Colo		BLDG 2000Q1 MPT-AC-GW-DPW10I MPT-AC-GW-DPW10I-01 MPT-AC-GW-DPW10I-01 GW	3W-DPW111 3W-DPW111-01 3W-DPW111-01	BLDG 2000Q1 MPT-AC-GW-DPW12! MPT-AC-GW-DPW12!-01 MPT-AC-GW-DPW12!-01	BLDG 2000Q1 MPT-AC-GW-DPW02I MPT-AC-GW-DPW02I-01 MPT-AC-GW-DPW02I-01	BLDG 2000Q1 MPT-AC-GW-DP-W02I MPT-AC-GWDP-W02I-01-AVG MPT-AC-GWDP-W02I-01-AVG	BLDG 2000Q1 MPT-AC-GW-DPW02I MPT-AC-GWDPW02L01-D MPT-AC-GW-DU03	BLDG 2000Q1 MPT-AC-GW-DPW04S MPT-AC-GWDPW04S-01 MPT-AC-GW-DPW04S-01	BLDG MPT-AC-GW-DPW04S MPT-AC-GWDPW04S-01-AVG MPT-AC-GWDPW04S-01-AVG
Colored Colo		NORMAL -9999 -9999 20000113 01/13/00	111 00	500 9999 9999 20000111 01/11/00	200 -9999 -9999 20000106 01/06/00	AV6 AV6 -9999 -9899 -20000106 01/05/00	GW -9999 -9899 20000106 01/08/00	GW DUP DUP -9999 -9999 20000112 01/12/00	GW AVG -9998 -9998 -9000112 014300
1975 1975	:	0199 HANSEN.T	SEN.T		0199 Hansen.t	0199 HANSEN T	0199 HANSEN T	0199 HANSEN T	0199 HANSEN T
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100 100 100 100 100 100 100 100 100 100		0 01	10 U	10 U	10 U	U 01	10 U	U 01	100
10		0 00	10 U	10 U	10 U	U 01	10 U	10 01	10 11
10		10 0	10 U	10 U	10 U	U 01	10 U	10 0	10 11
10 U		0.00	10 U	10 U	10 U	10 U	10 U	10 U	10 17
10 U		0.00	10 U	10 U	10 U	U 01	10 U	10 U	10 11
10		200	0.01	10 0	- O OF	10 U	10 U	10 U	10 U
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from wed_sam.dbf from wed_res.dbf from wed_res.xls from q\sql_serve/mayport\uplicad

D40 D41 C C C BLDG 2000011 C C BLDG 200001 C C BLDG 200001 C C BLDG 200001 C C BLDG 200001 C C BLDG C C C C C C C C C	0199 0199 HANSEN,T HANSEN,T	10 U	10 U		10 U	10 U	0 9	700	10 U	10 U	10 U	1 0	707	10 U 10 U	20 C	0.01	D 01	10 U	10 U		10 U	10 U			0.05 U	0.05 0	D 500	0.05 U	0.05 U	7 7 7					11 50 0	0.05 U	0.05 U		0.05 U	0.05 U	0 60.0
138 039 020	0199 HANSEN,T HANSEN,T C 038 C 039	10 U	10 U		10 U 10 U	10 U					10 U 10 U			10 U 10 U														0.05 U 0.05 U				10						0.05 U 0.05 U		+	0.05 U 0.05 U
	0199 HANSEN,T c 037	10 U	10 U	10 0	10 U	10 0	200	10 U	10 U	10 U	0	200	10 U	10 U	2000	200	10 U	0 0 0	200	10 U	10 U	10 U		300	0 000	0.05 U	0.05 Ü	0.05 U	0 60.0	1 n	10			10	0.05 U	0.05 U	0.05 U	0.05 0	0.05 U	0.05 U	0.05 U
	0199 HANSEN,T c_036	Н	2 5	10 0	U 01	0 00	10 0	10 U	10 U	10 C	0 -	10 U	10 U	J 0 0	8 5	10 U	10 U	10 0	10 0	10 U	10 U	10 0		17 300	0.05 U	0.05 U	0.05 U	0.05 0	10	10	7		100	1 U	0 05 U	0 005 U	0.000	0.000	0.05 U	0.05 U	0.05 U
035 C C BLDG 200001 MPT-AC-GW-DPW111 MPT-AC-GW-DPW111-01 GW MPT-AC-GW-DPW111-01 GW 6W 6W 9999 -9999 20000111 01/11/00	0199 HANSEN,T c_035	10 U	2 2	0 0	10 U	100	10 U	10 U	10 U	10 0	2 -	10 U	10 U	0 5	9 2	10 U	10 U	2 5	10 U	-10 U	10 C	0.00		0.05 11	0.05 U	0.05 U	0.05 U	0 000	10	n :		0 -	10	10	0 05 U	0.00	0.00	0.05 U	0 00 U	0.05 U	0.05 U
034 C C 200001 MPT-AC-GW-DPW101 MPT-AC-GW-DPW101-01 MPT-AC-GW-DPW101-01 GW GW GW -9999 -9999 -9999 -13000113	0199 HANSEN,T c_034	- O O	9 9	10 D	D 0 0	2 2	10 U	10 U	10 U	0 00	2 -	10 U	10 U	70 0	10 U	10 U	10 U	200	10 Ú	10 U	10 0	2		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	10	10,		n L	10	חו	0.05 U	0.00	0.05 U	0.05 U	0.05 U	0 05 U	0 000
order acc ou count to any to a	cto_proj proj_manag sort	METHYL METHANE SULFONATE	N-NITROSO-DI-N-PROPYLAMINE	N-NITROSODIETHYLAMINE	N-NITROSODIMETHYLAMINE	N-NITROSOMETHYLETHYLAMINE	N-NITROSOMORPHOLINE	N-NITROSOPIPERIDINE	NADHTHAI ENE	NITROBENZENE	0,0.0-TRIETHYL PHOSPHOROTHIOATE	O-TOLUIDINE	P-(DIMETHYLAMINO)AZOBENZENE	PENTACHLOROETHANE	PENTACHLORONITROBENZENE	PENTACHLOROPHENOL	PHENANTHERNE	PHENOL	PRONAMIDE	PYRENE	SAFROLE	SULFOTEPP	THIONAZIN Pesticides (PCBs (1001))	4.4-DDD	4,4-DDE	4.4-DDT	ALPHA-BHC	ALPHA-CHLORDANE	AROCLOR-1016	AROCLOR-1221	AROCLOR-1242	AROCLOR-1248	AROCLOR-1254	ARUCLOR-1260 PFTA_RMC	DELTA-BHC	DIELDRIN	ENDOSULFAN I	ENDOSULFAN II	ENDOSULFAN SULFATE	ENDRIN A DELIVER	

from wed_sam.dbf from wed_ras.dbf from wed_ras.xis from q'isq_server/mayport\upload

ou round location risample sample matrix saccode	I1 C-GW-DPW10I C-GW-DPW10I-01 C-GW-DPW10I-01	C C C C C C C C C C C C C C C C C C C	t1 C-GW-DPW12! C-GW-DPW12!-D1 C-GW-DPW12!-D1	BLCG 200001 MPT-AC-GW-DPW02I MPT-AC-GW-DPW02I-01 MPT-AC-GW-DPW02I-01 GW DUP	C BLDG BLDG MPT-AC-GW-DPW02I MPT-AC-GW-DPW02I-01-AVG MPT-AC-GW-DPW02I-01-AVG GW AVG	BLDG 200001 MPT-AC-GW-DPW02I MPT-AC-GW-DU03 GW DUP	C BUDG 200001 MPT-AC-GW-DPW04S MPT-AC-GW-DPW04S-01 GW GW	BCC 200001 MPT-AC-GW-DPW04S MPT-AC-GWDPW04S-01-AVG MPT-AC-GWDPW04S-01-AVG GW AVG
top_deput bottom_dep gis_date sample_dat	-9999 -9999 20000113 01/13/00	-8989 -9989 20000111 01/11/00	-9999 -9999 20000111 01/11/00	-3999 -3999 20000106 01/06/00	-9999 -9999 20000106 01/06/00	-9999 -9999 20000106 01/06/00	-9989 -9999 20000112 01/12/00	-9999 -9998 2000112 01/12/00
cto_proj proj_manag	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T	0199 HANSEN,T
ENDRIN KETONE	0.05 1	11 50	14	c 037	c 038	c 039	070	2
GAMMA-BHC (LINDANE)	0.05 U	0.05 U	0.05 U	D 500	0 500	0.000	0 500	0 60.0
MMA-CHLORDANE	0.05 U	0.05 U	U 20.0	0.05 U	0.05 U	0.05 U	0.05 U	U 500
TACHLOR	0.05 U	0.05 U	U 50.0	U 50.0	0.05 U	0.05 U	U 900	0.000
TACHLOR EPOXIDE	0 05 U	0.05 U	n 500	O 90'0	0.05 U	0.05 U	0.05 U	0.05 U
DAKIN	201.0						0.1 UJ	0.1 UJ
HOXXCHI OD	3	3	. O.	1 03	1 UJ	3	1 W	1 UJ
FOTEPP	0 -	100	0 L0	0 1.0	0.1 0	0.1 0	0.1 C	0.1 U
TOXAPHENE	2.13	= 0					0:	0.
noPhPesticides (ug/L.)				0.2	0.7	7 7 7	7.0	2.0
DIMETHOATE	10	10	10	1 0	11+	1 1	1	-
LFOTON	1 U	1 U	U L	10	10	1		
HUR	10	1 U	1 U	1 0	10	10	10	7 0
METHYL PARATHION	1 U	1 0	1 0	1.0	1 0	1.0	1 0	10
THIONAZIN	0.42 J	10	10	1 0	1 U	1 U	1.0	1 0
sides (ug/L)	2 22		0	חר	10	1 0	10	1 U
2,4,5-T	10	1 10	10	2 7	111	1 1	-	
TP (SILVEX)	1 0	1 W	J C	1 0	1 0	3 -		
41.0	4 U	4 UJ	4 U	0.28 J	0.28 J	0.28 J	0 4 C	0.4
nies (uall)	0.6 U	0.6 UJ	0.6 U	0.6 U	U 9:0	0.6 U	0.6 U	0.6 U
ALUMINUM	15.51	73.8.11	72.6 11	400				
ANTIMONY	1611	26.5	0.007	761	114.4	73.6 U	212 U	19.8 U
NIC	25 U	27 U	27 11	27.11	20 0	2.6 U	1.6 U	16 U
Wr	1.7 U	25 U	26 U		5.85	2.70	4.0 U	3.55 U
LLIUM	02 U	03 U	03 U	0.3 U	03.11	250	601	07/0
IIOM	0.7 U	0.2 U	0.2 U	0.2 U	0.2 U	0.50	0.50	0.20
MOI	27700 J	16400 J	50400 J	53000 J	1. 00728	92400	83700	20802
OMICIA	2,6 U	33.0	16 U	1.6 U	1.65 U	17 []	2 8 11	5 0007
	1.5 U	0.7 U	0.7 U	U 2.0	U 2.0	0.7.0	151	-
COPPER	29 U	1.1 U	1.1 0	1.1 U	J.1 U	1.10	29 11	11 66
	43.7 U	79.5 U	32 U	1700 J	1760 J	1820 J	341 U	215.8 U
***************************************	14 U	1.5 U	1,5 U	1.5 U	1.5 U	1.5 U	14 U	14.11
ANEGE	26500 J	9350 J	30000	20900 J	21000 J	21100 J	2560 J	6630 J
100	0 98	16 J	16.5 J	72.9 J	75.9 J	J 89 J	269 J	50.15
BOENUM	0.031 0	0.03	0.03 U	0.03 U	0.03 U	0.03 U	0.039 U	0.035 U
NICKEL	17 11	13 11						
SSIUM	31700 1	18200	0 5 1	1.3 U	1.3 U	13.0	17 U	1,7 U
NIUM	3.1 U	47 11	47.11	6310 3	63/0 3	6430 J	1820 U	3595 J
25	19 U	1811	- 4	7	0 / 4	9,70	310	3.1 U
M)	112000 J	296000	30600	14200	14500	1.6 U	19 0	1.9 U
LIUM	94 U	7111	7.1.11	7.4.11	14500	14800	5460 J	10330 J
	46 U	25 11	25.11	0 - 2	017	0.17	9.4 U	9.4 U
VANADIUM	3.1	32.0	1 50	15.1	0.52	2.5 U	4,6 U	4.6 U
	3.7 U	55	16.1	200	25.75	1,7 U	2.1	1.575
Miscellaneous Parameters (mg/L)			2	200	67.12	40.6	0.66	11,3 U
7 17 1								



order	034	035	036	037	038	039	040	170
aoc	<u>ပ</u>		ں	Ü	<u>υ</u>	ن	O	<u>U</u>
no	BLDG		BLDG	BLDG	BLDG	BLDG	BLDG	BLDG
round	200001		200001	200001			200001	200001
location	MPT-AC-GW-DPW10I	MPT-AC-GW-DPW111	MPT-AC-GW-DPW12I	MPT-AC-GW-DPW02I	-GW-DPW02i	-GW-DP-W02I	MPT-AC-GW-DPW04S	MPT-AC-GW-DPW04S
insample	MPT-AC-GW-DPW10I-01		MPT-AC-GW-DPW12I-01	MPT-AC-GWDPW02I-01			MPT-AC-GWDPW04S-01	MPT-AC-GWDPW04S-01-AVG
sample	MPT-AC-GW-DPW10I-01		MPT-AC-GW-DPW12I-01	MPT-AC-GW-DPW02I-01			MPT-AC-GW-DPW04S-01	MPT-AC-GWDPW04S-01-AVG
matrix	ВW		MS	ВW			GW	MS.
sacode	NORMAL		NORMAL	DUP	AVG	DUP	DUP	AVG
top_depth	6666-	6666-	6666-	6666-	6666-	_	6866-	6666-
bottom_dep	-9999		6666-	6666-			6666-	6666-
'gis_date	20000113		20000111	20000106			20000112	20000112
sample_dat	01/13/00		01/11/00	01/06/00			01/12/00	01/12/00
validated								
cto_proj	0199	0199	0199	0199	0199	0199	0199	0199
proj manag	HANSEN,T	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN,1	HANSEN.T	HANSEN.T	TANSER. 1
sort	c_034	c_035		c_037	c 038		c 040	c 041
NITRATE	0.1 U	0.1 U	0.1 U				0.1 U	01 U
NITRITE	0.1 U	0.1.0	0.1 U				0.1 U	01 U
SULFATE	F 6	10 U	39				O S	14.25 J
					7			

order	042	043	44		046	27	25 C	8
70	200	٥	2 8	<u>و</u> ء	<u>ا</u>	200	200	<u>ن</u> 10 م
punou	200001	200001	200001	-	200302			200302
location	MPT-AC-GW-DPW04S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW02D	-GW-DPW02D	GW-DPW02D	MPT-AC-GW-DPW02I
nsampie	MPT-AC-GWDPW04S-01-D		MPT-AC-GWDPW06S-01-AVG		MPT-ACDPW02D-RS			MPT-ACDPW02I-RS
matrix	GW GW		GW	200	GW GW	DAVIDOUS TO STATE OF THE STATE		GW
sacode too death	DUP		AVG	DUP	DUP	AVG	PUP	DUP
bottom dep	6666	5555	5656		8886	6665- 6665-		6666
gıs_date	20000112	20000113	20000113	8	20030425	20030425	S	20030425
sample_dat	01/12/00	01/13/00	01/13/00	01/13/00	04/25/03	04/25/03	04/25/03	04/25/03
cto_proj	0199	0199		25				Y 0123
pro manag	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	EN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c_042	c_043						c_048
1112-TETRACHI OROETHANE	111	-	1 4					
1.1.1-TRICHLOROETHANE								
1,1,2,2-TETRACHLOROETHANE	10	201	2					
1.1,2-TRICHLOROETHANE	10	0.1	n F	10				
1,1-DICHLOROETHANE	10	10	1 0	7 -				
1.1-DICHLOROETHENE	1 D	0.1	10	0.1				
1.2.3-TRICHLOROPROPANE	1 C	J C	10	0.1				
1.2-DIBROMO-3-CHLOROPROPANE	1 03	10	10	0.1				
1,2-DIBROMOETHANE	J C	10	10	10				
1,2-DICHLOROETHANE	1 0	10	10	0 -				
1,2-DICHLOROPROPANE	10	¬ +	10	7				
2-BUTANONE	10 U	10 U	J0 01	10 01				
2-CHLOROETHYL VINYL ETHER	1 C	10	0.1	7.				
2-HEXANONE	10 U	10 U	10 U	10 U				
3-CHLOROPROPENE	J C	10	10	1				
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U				
ACETONE	10 U	10 U	10 U	10 01				
ACETONITRILE	20 UR	20 UR	20 UR	20 UR				
ACROLEIN	10 UR	10 UR	10 UR	10 UR				
ACRYLONITRILE	10 U	10 U	10 U	U 01				
BENZENE	1 U	1 0	1 0	10				
BROMODICHLOROMETHANE	10	10	1 0	1 0				
BROMOFORM	1 U	J 1	10	10				
BROMOMETHANE	2 U	2.0	2 U	2 ∪				
CARBON DISULFIDE	0.35 J	10	0.58 J	L 85.0				
CARBON TETRACHLORIDE	J U	1 U	0.1	10				
CHLOROBENZENE	10	10	10	1 0				
CHICACOURACINAME	0	10	10	1 0				
CHLOROGERANE	10	1 U	10	1.0				
CHIODOMETUANIE	10	n t	0.12 J	0.12 J				
CHIOROPRENE			0	1.0				
CIS-12-DICHI OROFTHENE	0 - 0	0 1	0 1	10				
CIS-1.3-DICHLOROPROPENE		0 60	n c'n	0.5 U				
DIBROMOMETHANE	2 -			0				
DICHLORODIFLUOROMETHANE	10,							
ETHYL METHACRYLATE	7							
ETHYLBENZENE	10	10						
ISOBUTANOL	50 UR	50 UR	50 UR	81 02				
METHACRYLONITRILE	10	1 00	10	13				
METHANE		330	645 J	F 096				
METHYL IODIDE	1 0	J L	1 U	10				
METHYLMETHACRYLATE	1 0	1 C	10	10				
METHYL TERT-BUTYL ETHER								
METHYLENE CHLORIDE	1 U	1 0	10	0.1				
PROPIONITRILE	4 UR	4 UR	4 UR	4 UR				
TETOACHI OBOTTUTAR	1 U	1 0	1 U	10				
TOLLIENE	0	1 U	1.0	10				
	ם ר	10	1.0	10				



	2	7	64 C	25	9 0	75		040
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	BLUG		BLUG	BLUG	BLUG	BLUG	BLDG	HUG
	100002		2000071	200001	200302	200302	200302	2003Q2
location	MPT-AC-GW-DPW04S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02I
nsample	MPT-AC-GWDPW04S-01-D		MPT-AC-GWDPW06S-01-AVG	MPT-AC-GWDPW08S-01-D	MPT-ACDPW02D-RS	MPT-ACDPW02D-RS-AVG	MPT-ACDPW02D-RS-D	MPT-ACDPW02I-RS
	MPT-AC-GW-DU04	MPT-AC-GW-DPW06S-01	MPT-AC-GWDPW06S-01-AVG	MPT-AC-GW-DU05	MPT-AC-DPW02D-RS	MPT-ACDPW02D-RS-AVG	MPT-DU03-RS	MPT-AC-DPW02I-RS
matrix	GW	ΘW	ĞW.	МĐ	MΘ	Вw	GW	Вw
	DOP		AVG	DUP	DUP	AVG	DUP	DUP
Unden dot	6666-		6666-	6866-	6686-	6866-	6666-	6666-
dep monon	6666-		6666-	6666-	6666-	6866-	6666-	- 6666
gits_date	20000112	_	20000113	20000113	20030425	20030425	20030425	20030425
Ten and Line	00/21/10	01/13/00	01/13/00	01/13/00	04/25/03	04/25/03	04/25/03	04/25/03
					<u>></u>	<u>>-</u>	<u>></u>	>
	0199		0199	0199	0123	0123	0123	0123
proj manag	HANSEN.T	HANSEN,T	HANSEN.T	HANSEN.T	HANSEN.T	HANSEN.T		HANSEN
sort	c_042		c 044	c 045	c 046		C DAR	5 049
OROETHENE	1 1	10						
TOTAL XYLENES	=+	-	-					
TRANC 12 DICHI OBOETHENE								
TDANG 12 DICHI ODODODENE	0.50	0 60	0 60	0 60				
TANG TO	0	0.0	1.0	1 0				
TRANS-1,4-DICHLORO-2-BUTENE	1 UJ	1 0,3	3-	1 UJ				
TRICHLOROETHENE	1 U	1 0	10	10				
TRICHLOROFLUOROMETHANE	2 U	2 11	2 11	11 6				
VINYLACETATE		-	2	24				
VINY! CHI OBIDE	3 -							
WINTE CHECKING	0	ם ר	ייי	1 0				
Semivolatile Organics (ug/L.)								
1.2.4.5-TETRACHLOROBENZENE	10 17	10 02	10 11	11 07				
1.2.4. TRICHI OBORENZENE	2 4		2	0				
L'E' + INICHICHOBERZENE	0.01	ט פר	10 U	10 O				
1,2-DICHLOROBENZENE	70 U	10 U	10 U	10 U				
1.3,5-TRINITROBENZENE	10 17	10 11	11 01	7				
13-DICHI OROBENZENE	100		2 4					
4.5 DIVITOODENIATION	2	0.01	JO 0L	10 U				
1.3-DINI I ROBENZENE	10 U	10 U	10 U	10 U				
1.4-DICHLOROBENZENE	J 0.	n ot	10 U	10 U				
1,4-DIOXANE	10 U	10 11	10 01	11 07				
1.4-NAPHTHOQUINONE	10 11	10 11	1707	2 5				
1 4-PHENY! ENEDIAMINE	200	200	200	0:0				
1-NADLTHY: AMINE	0.0	2	0.01	ט טר				
This could be a country of a	0 01	U OL	10 U	10 U				
2.2-UXYBIS(1-CHLOROPROPANE)	10 U	10 U	10 U	10 U				
2.3,4,6-TETRACHLOROPHENOL	10 ∪	10 U	10 11	40 11				
2,4,5-TRICHLOROPHENOL	10 U	10 11	10 11	1 0				
2.4.6-TRICHLOROPHENOL	10 01	40 11	-					
24-DICHLOROPHENOI	200	2 4		0.01				
24 DIMETUS DUCKO	0 01	O OL	10 U	10 U				
Z.4-UIMETHITICHENOL	10 U	10 U	10 U	10 U				
2.4-DINITROPHENOL	25 UJ	25 U	25 ∪	25 U				
2.4-DINITROTOLUENE	10 U	10 U	10 11	10 (1				
2,6-DICHLOROPHENOL	10 U	10 11	100	100				
2,6-DINITROTOLUENE	11 00	- 4	9	2	-			
2-ACETYLAMINOFLUORENE	10 11	11 07	2 5	200				
2-CHLORONAPHTHALENE	- 0			0 2				
2.CHI OROPHENOI		2	0 2	ט טר				
2.METHY: NADHTHA: ENE	0:0	0.01	10 U	10 U				
2-METHY: DUENO	0:0	ט פר	10.0	10 U				
2 MACHINE AND	U OL	10 U	10 U	10 U				
Z-NAPH INTLAMINE	10 U	10 U	10 U	10 U				
Z-NI I ROANILINE	25 U	25 U	25 U	25.11				
2-NITROPHENOL	10 U	10 U	11 01	100				
2-PICOLINE	10 11		200	2				
3,3-DICHLOROBENZIDINE	= =====================================		0 :	U 01				
3.3-DIMETHY! RENZIDINE	2	2	0.01	10 U				
PARTICION ANTIOCHIA	0.01	10 U	10 U	10 U				
S MITTOURNINKENE	10 U	10 U	10 U	10 U				
3-MEIHYLPHENOL	10 U	10 U	10 01	10 17				
3-NITROANILINE	25 U	25 U	25.5	2 2				
4.6-DINITRO-2-METHYLPHENOL	25 11	0.55	0 67	25 U				
4-AMINOBIPHENYL	200	750	0 07	25 U				
4-BROMOPHENYL PHENYL ETHER	200	2 5	0 2	10 U				
4-CHI ORO-3-METHY! PHENO!	2 2	0.00	10 U	10 U				
4-CHI ODOANII IME	0 0 0	10 O	10 U	10 U				
4-CHLORCANILINE	10 U	10 U	10 U	10 U				
			-	2				

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no.	BUDG	BLDG	BLDG		BLDG	BLDG	BLDG	BLDG
round	200001	200001	2000Q1	200001	200302	2003Q2	2003Q2	2003Q2
location	MPI-AC-GW-DPW04S	MPT-AC-GW-DPW06S	MP1-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPI-AC-GW-DPW02D	MPT-AC-GW-DPW02D	MPI-AC-GW-DPW0ZD	MPI-AC-GW-DPW02I
addies.	MPT-AC-GW-DUO4	MPT-AC-GW-DPW065-01	MPT-AC-GWDPW06S-01-AVG		MPT-AC-DPW02D-RS	MPT-ACDPW02D-RS-AVG	MPT-DUG-RS	MPT-AC-DPW02I-RS
matrix	GW	GW	GW		GW	GW	GW	GW
sacode to death	PUP	DOP	AVG		and	AVG	DUP	DUP 0000
bottom dep	5555	6666-	0000-	0000	6666	0000-	6666	6666-
gis_date	20000112	20000113	20000113	113	20030425	20030425	20030425	20030425
sample_dat	01/12/00	01/13/00	01/13/00		04/25/03	04/25/03	04/25/03	04/25/03
Validated	0100		0		<u></u>	· ·	<u>}</u>	-
proj manag	HANSEN	HANSENT	HANSEN		HANSEN T	HANSEN T	HANSEN T	HANSEN T
sort		c 043	c_044	c_045	c 046	c 047	c 048	c 049
4-CHLOROPHENYL PHENYL ETHER	10 U	10 U		10 U				
4-METHYLPHENOL	10 0	10 U	10 U	10 U				
4-NITROANILINE	25 U	25 U	25 U	25 U				
4-NITROPHENOL	25 U	25 U	25 U	25 U				
4-NITROQUINOLINE-1-OXIDE	10 UR	10 UR	10 UR	10 UR				
5-NITRO-O-TOLUIDINE	10 O	10 U	10 ∪	10 U				
7,12-DIMETHYLBENZ(A)ANTHRACENE	10 U	10 U	10 U	10 U				
A.A-DIMETHYLPHENETHYLAMINE	50 UJ	50 U	50 U	50 U				
ACENAPHTHENE	10 U	- P C	10 U	10 01				
ACENAPHTHYLENE	10 U	10 U	10 1	10 11				
ACETOPHENONE	10 U	10 U	10 U	10 1				
ANILINE	10 U	10 U	10 U	11 01				
ANTHRACENE	10 U	10 11	10 11	1 07				
ARAMITE	10 11	101	1 0	200				
BENZO(A)ANTHRACENE	10 11	101	10 11	2 0				
BENZO(A)PYRENE	100	2 5	200					
BENZO(B)FI LIORANTHENE		2 9	2 5	0.00				
BENZO/G H INPERVI FNE		2 5	000	0 : 0				
BENZOWEI LORANTHENE	2 5	2		0 : 0				
BENZY! ALCOHO!	2 5	0 2 4	0.01	0.01				
RIS/2-CHI OROFTHOXY/METHANE	2 5	200	0 :	0.00				
BIS/2-CHLOROETHYLJETHER	200							
BIS/2-ETHYLHEXYLIPHTHALATE	2 -	0.2		0:1				
BUTY! BENZY! PHTHA! ATE	-	000	0.6	0.6				
CABBAZOI E		0 0	0 00	O 02				
CHI OROBENZII ATE	2 5	200	0 01	0.00				
CHRYSENE		0.00	ם פר	10 O				
DIA BITTY DUTUM ATE	0 2 4	0.01	10 U	10 U				
DIN OCTYL DHTHAI ATE	0 2	0.00	0 0	10 U				
DIALIATE	200	0 00	0.00	10 0				
DIRENZO/A HYANTHRACENE	0.02	0.07	20 U	20 U				
DIBENZOFURAN		0.00	10 0	10 O				
DIETHYL PHTHALATE	2 5	0 0	0.01	0.00				
DIMETHYL PHTHALATE	10 UR	25.05	9	0.100				
DINOSEB				XO O				
DIPHENYLAMINE	10 U	10 U	10 11	10 17				
ETHYL METHANE SULFONATE	10 U	10 U	10 01	200				
ETHYL PARATHION	m t	. L	3	10.7				
FLUORANTHENE	10 U	10 U	10 U	10 U				
FLUORENE	10 U	10 U	10 U	10 U				
HEXACHLOROBENZENE	10 U	10 U	10 U	10 U				
HEXACHLOROBUTADIENE	10 U	10 U	10 U	10 U				
HEXACHLOROCYCLOPENTADIENE	10 UR	10 UR	10 UR	10 UR				
HEXACH OROGENER	10 U	10 U	10 U	10 U				
HEXACHLOROPROPENE	10 U	10 U	10 U	10 U				
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	10 U				
SOBHORONE								
ISOSAFROI E	0 0	0.01	10 U	10 U				
METHAPYRILENE	200	0 0	0.00	10 U				
	2	0 01	U OL	10 U				
•								!



aoc		3 0	3 0	3 0	3 0	2	3 0	3 C
по	BLDG		BLDG	ВГОС	BLDG	BLDG	BLDG	BLDG
round	200001		2000Q1	200001	200302		200302	200302
nsamole	MP1-AC-GW-DPW04S MPT-AC-GWDPW04S-01-D	MPI-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW02D		MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02I
sample	MPT-AC-GW-DU04	AC-GW-DPWD6S-01	MPT-AC-GWDPW06S-01-AVG	MPT-AC-GW-DU05	MPT-AC-DPW02D-RS	MPT-ACDPW02D-RS-AVG	MPT-DUC3-RS	MPT-AC-DPW02I-RS
matrix	MS dild	QW and	GW	SW GIG	GW GIG		W.S.	AS O
	6666-	_	6686-	6666-	6666-	6668-	-666	6886-
bottom_dep	6666-		6666-	6666-		6666-	6666-	6666-
	20000112	20000113	20000113	20000113		20030425		20030425
					, market	×	, .	V
	0199	0199	0199		0123	0123	0123	0123
manag	HANSEN,T	HANSEN,T	HANSEN,T	L, N.	HANSEN,T	HANSEN,T	T,N=	HANSEN,T
		C 043				c_047	c 048	c 049
N-NITROSO-DI-N-BUTYLAMINE	200		2 5	2 9				
N-NITROSO-DI-N-PROPYLAMINE	10 17	10 0	200	200				
N-NITROSODIETHYLAMINE	10 U	10 U	10 U					
N-NITROSODIMETHYLAMINE	10 U	10 U	10 U	10 U				
N-NITROSODIPHENYLAMINE	10 U	10 U	10 U	10 U				
N-NITROSOMETHYLETHYLAMINE	10 U	10 U	10 Ü	10 U				
N-NITROSOMORPHOLINE	10 U	10 U	10 U	10 U				
N-NITROSOPIPERIDINE	10 U	10 U	10 U	10 U				
N-NITROSOPYRROLIDINE	10 U	10 U	10 U	10 U				
NAPHTHALENE	10 U	10 U	10 U	10 U				
NIROBENZENE	10 U	10 U	10 U	10 U				
O.O.O.TRIETHYL PHOSPHOROTHIOATE	J W	1 03	1 03	1 0.1				
O-TOLUDINE	10 U	10 U	10 U	10 U				
P-(UIME IMYLAMINO)AZOBENZENE	10 U	10 U	10 U	10 U				
PENTACHLOROBENZENE	10 U	10 U	10 U	10 U				
PENIACHLOROEIHANE	50 U	50 U	50 U	50 U				
PENTACHLORONITROBENZENE	10 U	10 U	10 U	10 U				
PENIACHLOROPHENOL	10 U	10 U	10 U	10 U				
DIENANTUBENE	0.01	10 U	10 U	10 U				
CNIHO	0 2	0.00	0.01	10 U				
PRONAMIDE	100	200	200	0 0				
PYRENE	10 1	100	200					
PYRIDINE	10 U	10 U	100					
SAFROLE	10 U	10 U	10 U	0.01				
SULFOTEPP								
THIONAZIN								
Pesticides/PCBs (ug/L)								
000-4-4	0.05 U	0.05 U	0.05 U	0.05 U				
44.00T	0 600	0.05 U	0.05 U	0.05 U				
ALDRIN	0 500	0.00	0.05 U	0.05 U				
ALPHA-BHC	0.05 11	1 500	2000	0.09 0				
ALPHA-CHLORDANE	0.05 U	0.05 U	0.05 U	0.00				
AROCLOR-1016	1 0	1 U	1 n	10				
AROCLOR-1221	1 U	1 U	1.0	1 U				
AROCI OR-1949	2	-	1 0	1.0				
AROCLOR-1248	2 -	0 :	7 0	1 U				
AROCLOR-1254			0 -	0:1				
AROCLOR-1260	10	10						
BETA-BHC	0.05 U	0.05 U	U 90.0	1000				
DELTA-BHC	0 00 U	0.05 U	0.05 U	0.05 U				
DIELDRIN	0.05 U	0.05 U	0.05 U	0.05 U				
ENDOSTII FAN II	0 05 U	0.05 U	0.05 U	0.05 U				
ENDOSULFATE	0.05 U	0.05 U	0.05 U	0.05 U				
ENDRIN	0.05 U	0.05	0 000	0.05 U				
ENDRIN ALDEHYDE	0.05 U	0.05 U	0.00	0.00				
				2000			-	

aoc c (sample set mod) 3/7/20078:56 AM full appendix results

order aoc ou	042 C	C 063	4 0		3 0	2 0	3 U	3
		<u>_</u>	<u>د</u>		<u>ر</u>		<u>د</u>	
	0	0	2	0	2	0	0	, a
Puin	30001	20000	20003	-	200302	200302	200302	200302
	MET AC CIA/DEMANAS		MDT.AC.GMCDDMANGS	CAVIDDAMES	MPT-AC-GW-DPW02D	GW-DPW02D	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02
osamole	MPT-AC-GWDPW04S-01-D	MPT-AC-GWDPW06S-01	MPT-AC-GWDPW06S-01-AVG		MPT-ACDPW02D-RS		MPT-ACDPW020-RS-D	MPT-ACDPW02I-RS
sample	MPT-AC-GW-DU04		MPT-AC-GWDPW06S-01-AVG	MPT-AC-GW-DU05	MPT-AC-DPW02D-RS	MPT-ACDPW02D-RS-AVG	MPT-DU03-RS	MPT-AC-DPW02I-RS
mathx	œw.		ΘW		GW		MS.	GW
ege .	and.		AVG		Dup	AVG	DUP	900
depart.	6666-		0000	0000	0000	0000	0000	0000
tate tate	20000112	20000113	20000113	113	20030425	20030425	20030425	20030425
sample dat	01/12/00	01/13/00	01/13/00		04/25/03	04/25/03	04/25/03	04/25/03
validated					>	>	>	>
ō	0199	0199	0199	0199	0123	0123	0123	0123
proj manag	HANSEN	HANSEN	HANSEN T	HANSEN T	HANSEN H	HANSEN	HANSEN.1	HANSEN.T
	c 042	c 043	c 044		c 046	c 047	c 048	c 049
JRIN KETONE	0.05 U	0.05 U	0.05 U	0.05 U				
WMA-BHC (LINDANE)	0.05	0.05	0.05	0.00				
GAMMA-CHLORDANE	0.05 11	0.05 11	0.05 11	0.05				
TACHLOR	11 90 0	0.05 11	0.05	11 900				
TACHLOR EPOXIDE	11 500	0.05	2 200	11 900				
SODRIN	0.4 10.1	04 11	0.4 (1)	11 10				
- ONE		3 = 5	6	3				
ac incoxon	3	3	3	3				
POSTERIOR	0 . 0	0 10	0.10	0 1.0				
	0	1.0	J U	1.0				
APHENE	2 U	2.0	2 U	2 U				
noPhPesticides (ug/L)								
THOATE	0.1	101	1 0	10				
ILFOTON	0 +	77	11					
PHUR	10	==	==	= +				
HVI PARATHION	-	-		7				
BATE								
THOMSIN								
MACON COLUMN	0 1	0	1 0	1 0				
ines (ng/L)								
17. 17. 10. C.	0.	1.0	1.0	1.0				
IP (SILVEX)	10	1 0	10	10				
	4 U	4 0	4 U	4 0				
DINOSEB	0.80	U 9'0	0.6 U	0.6 U				
inics (ug/L)								
INUM	18.4 U	15.5 U	15.5 U	15.5 U				
NONY	16 U	2811	2211	1,81				
NC	25.0	25.11	25.11	1 40				
W	2411	0.69.11	1 105 11	2.7				
Militar		0.600	0 661.	0 2 3				
MI	0.20	0 70	0.2.0	0.2.0				
	0 /0	0 / 0	60.0	0.83		i		
Maria	C 006//	5/400 J	42650 J	27900 J				
NO SECOND	26 U	2.6 U	2.6 U	2.6 U				
111	1.5 U	15 U	1.5 U	1.5 U				
TEK .	29 U	29 U	29 U	2.9 U				
	90e U	80 U	61.85 U	43.7 U				
	1.4 U	14.0	1.4 U	1.4 U				
NESIUM	10700 J	1950 J	14425 J	26900 J				
SANESE	734 J	13 J	8.525 J	8.1 U				
MERCURY	0.031 U	0,031 U	0.031 U	0.031 U				
YBDENUM								
EL	U 7.1	5.7 U	3.7 U	17.0				
POTASSIUM	6280 J	1940 U	14785 J	28600				
NICM	310	3.1 U	3.1 U	34.11				
8	19.0	1161	191	10 1				
MO	15200 J	1 0202	58010	700000				
TICIN	94.11	94.11	2000	Comeni				
	46.11	78.0	1 4 6	0.4.0	0.24 U	0.255 U	0.27 U	0.10 U
DIUM	211	27.5	20.00	4.0 0				
ZINC	12.7 11	2 7 0	671.7	3.2				
laneous Parameters (mg/L)				4.7 0				
IDE (ua/L)	3.11							
		,	20	3.0				



order	042	043	044	045	046	047	048	049
aoc	<u>0</u>	O	U	Ų	U	0	U	U
חס	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG	BLDG
punou	200001	200001	2000Q1	200001	2003Q2	2003Q2	~	200302
location	MPT-AC-GW-DPW04S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW06S	MPT-AC-GW-DPW02D	MPT-AC-GW-DPW02D		MPT-AC-GW-DPW02I
nsample	MPT-AC-GWDPW04S-01-D	MPT-AC-GWDPW06S-01	MPT-AC-GWDPW06S-01-AVG	MPT-AC-GWDPW08S-01-D	MPT-ACDP/W02D-RS	MPT-ACDPW02D-RS-AVG	MPT-ACDPW02D-RS-D	MPT-ACDPW021-RS
sample	MPT-AC-GW-DU04	MPT-AC-GW-DPW06S-01	MPT-AC-GWDPW06S-01-AVG	MPT-AC-GW-DU05	MPT-AC-DPW02D-RS	MPT-ACDPW02D-RS-AVG		MPT-AC-DPW02I-RS
matnx	GW	GW	GW	GW	ΘW	GW		WS
sacode	DUP	DUP	AVG	DUP	DUP	AVG	DUP	- and
top_depth	6666-	6666-	6666-	- 6666	6666-	8866-	6666-	6566
bottom_dep	6666-		6666-	-9888	6666-	6866-	6866-	6666
gıs_date	20000112		20000113	20000113	20030425	20030425	20030425	20030425
sample_dat	01/12/00	01/13/00	01/13/00	01/13/00	04/25/03	04/25/03	04/25/03	04/25/03
validated					<u>></u>	> -	>	-
cto_proj	0199	0199	0199	0199	0123	0123	0123	0123
proj manag	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN.T	HANSENT
sort	c_042	c_043	c 044	c 045	c 046	c 047	c 048	c 049
NITRATE	0.1.0	010	0.1.0	0.1 U				
NITRITE	0.1 U	0.1 U	0.1 U	0.1 U				
SULFATE	26 J	F 8	11.5 J	15 J				

oc c (sample set mod)
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and poor	020	Dea	000		730	230	920		940
30C	<u>.</u>	<u>.</u>						Ü	2
2	BLDG	BLDG		BLDG			ЕСНО		ЕСНО
puno		200302		2003Q2	2003Q2		199904		199904
ocation		MPT-AC-GW-DPW02I	'n	MPT-AC-GW-DPW02S	MPT-AC-GW-DPW02S		MPT-EP-DPW02	AOCC	MPT-EP-DPW04S
sample	MPT-ACDPW02I-RS-AVG	MPT-ACDPW02I-RS-D		MPT-ACDPW02S-RS-AVG	MPT-ACDPW02S-RS-D		MPT-EP-GW-DPW02I-01		MPT-EP-GW-MW04S-01
ration and the same and the sam	CDPWZI-RO-AVG	MPI-DUOZ-RS	AC-D-W029-R0	MPI-ACUPWOZU-RU-AVG	DOUT-RS	PW0ZI-RS	W-D-WOZI-OI	- LO-SS-OJ	MPI-EP-GW-MW040-U1
acode	AVG	and	and	AVG		NORMAL	AL	¥.	NORMAL
op_depth	6666-	6666-		6666-					6666
nattom_dep	6666-	6566-		6666-					-9999
jis_date	20030425	20030425		20030425	20030425	_	19991206	18991207	19991207
	Od/Co/US	20,027,002	V4/22/03	U4/25/03	U4/25/03	04/24/03	12/06/99	12/0//98	12/07/99
to pro	0123	0123	0123	0123	0123	0123			
voj manag	ENT	EN,T	EN,T	HANSEN,T	EN,T	EN,T	HANSEN,T	HANSEN,T	HANSEN,T
to:				c_053					c_058
/olatile Organics (ug/L.)									
1.1.1.2-IEIRACHLOROEIHANE							, t	5 UJ	1.7 U
1 1 2 2 TETRACHI OPOETHANE							0	5 03	1.7 U
1.1.2-TRICHLOROETHANE								30 6	0 / 1
1.1-DICHLOROETHANE								3	0.7.0
1,1-DICHLOROETHENE							777	33.4	171
1,2,3-TRICHLOROPROPANE							===	3	17.1
1,2-DIBROMO-3-CHLOROPROPANE							2 -	111 5	17.1
1,2-DIBROMOETHANE							n t	FN S	17.0
1,2-DICHLOROETHANE							n	Th S	17.0
1,2-DICHLOROPROPANE							7	5 111	17
2-BUTANONE							10 U	SO UR	17 UR
2-CHLOROETHYL VINYL ETHER							1 UR	5 118	17 UR
2-HEXANONE							10 UR	50 UJ	17 U
3-CHLOROPROPENE							10	- F	17.0
LMETHYL-2-PENTANONE							10 U	FO 05	17 U
CETONE							10 U	50 UR	17 UR
ACETONITAILE							20 UR	100 UR	33 UR
ACROLEIN							10 UR	50 UR	17 UR
SENTIONINIE							10 U	50 UR	17 UR
SENZENE SPONODIU ODOMENIANI							1 0	5 0.3	1.7 U
SOMOGOLONOMETHANE							1.0	5 UJ	17 U
SPONDING TOWN							1 0	S UJ	1.7 U
A PRON DISTRIBLE							2 U	10 UJ	33 U
APBON TETBACHI OBINE							10	45 J	1.7 U
H OROBENZENE							10	5 0.1	1.7 U
HORODIBROMOMETHANE							1 0	5 0.0	1,7 U
HOROETHANE							10	5 0.1	1.7 U
HOROFORM							10	5 UJ	1.7 U
HLOROMETHANE							10	5 U.J	1,7 U
HLOROPRENE								70 6	0 / 1
35-1,2-DICHLOROETHENE							- 60	3 4	12
IS-1.3-DICHLOROPROPENE							2 -	20.4	47 11
JIBROMOME HANE							100	3 =	2 4
TUNI METLIACEN ATT							10.1	20.00	0.78
THY BENZENE							10	5 0.0	17.11
CORLITANO							10	5 UJ	17.0
AETHACRYI ONITRII E							50 UR	250 UR	83 UR
IETHANE							1 02	5 UR	1.7 UR
IETHYL IODIDE									
1ETHYL METHACRYLATE							1.0	5 UJ	1.7 U
IETHYL TERT-BUTYL ETHER							1 UJ	s uz	1,7 U
IETHYLENE CHLORIDE									
ROPIONITRILE							٠ ر	5 0.0	1.7 U
TYRENE					1		4 UR	20 UR	6.6 UR
ETRACHLOROETHENE								5 UJ	1.7 U
OLUENE						†	7	2 07	1.7 U
							חר	P nn	1.7 U



State	nen C	E C	Zen C	265	.	9 0	8 c	3 0	8 U
	BLDG	BLDG	901		90		ЕСНО		ЕСНО
puno	200302	2	2			200302	_		1989Q4
ocation	MPT-AC-GW-DPW02I	MPT-AC-GW-DPW02I	MPT-AC-GW-DPW02S	-GW-DPW02S		-DPW02I	MPT-EP-DPW02I		MPT-EP-DPW04S
ısample	MPT-ACDPW02I-RS-AVG	MPT-ACDPW02I-RS-D		NG N	MPT-ACDPW02S-RS-D			MPT-EP-GW-MW03S-01	MPT-EP-GW-MW04S-01
:ample	MPT-ACDPW02I-RS-AVG	DU02-RS	AC-DPW02S-RS	ACDPW02S-RS-AVG		PW02I-RS	:W-DPW02I-01	_	MPT-EP-GW-MW04S-01
natrix	BW BVG	AS C	ASI C	GW AVS	A disc	GW NORMAI	NORWA!	NORMAL	NORMAL
op depth	6668-		_						-9999
vottom_dep	6666-			6666					-8989
ils_date	20030425	20030425		5			19991206	19891207	19991207
ample_dat	04/25/03	04/25/03	04/25/03	04/25/03	04/25/03	04/24/03	12/UG/99	12/0/ZL	B8//0/71
Delanas.	0423		0423		-	10423			
not manag	HANSENT	EN.T					HANSEN.T	HANSEN.T	HANSEN.T
iort	c_050		c_052	c_053	c_054	c_055			c_058
TOTAL 1,2-DICHLOROETHENE							0.33 J	16.1	1.7
TOTAL XYLENES							1.0	5 UJ	1.7 U
TRANS-1,2-DICHLOROETHENE							0.13 J	2.5 UJ	0.83 U
TRANS-1, S-DICHLOROPROPENE								3	0 /1
TRANS-1,4-DICALORO-2-BUIENE								TO 6	1.7 0
TRICHI OROFI I DROMETHANE								200	33 11
VINYL ACETATE							=	2 4	17 1
VINYL CHLORIDE							4.3	20.0	0.49 J
emivolatile Organics (ug/L)									
1.2,4,5-TETRACHLOROBENZENE							U 01	10 01	10 U
1,2,4 TRICHLOROBENZENE							10 U	10 U	10 U
1,2-DICHLOROBENZENE							10 U	10 U	10 U
1.3,5-TRINITROBENZENE							10 U	10 UJ	10 UJ
1,3-DICHLOROBENZENE							10 U	10 U	10 U
1,3-DINITROBENZENE							10 U	10 U	10 U
1,4-DICHLOROBENZENE							10 U	10 U	10 U
1.4-DIOXANE							10 U	10 U	10 Ü
1,4-NAPHTHOQUINONE							10 U	10 U	10 U
1,4-PHENYLENEDIAMINE							10 U	10 U	to U
I-NAPHIHYLAMINE							10 U	10 U	10 U
2.2-UXYBIS(1-CHLOROPROPANE)							10 U	10 U	10 U
A F. TRICHI ODODUENOL							0 :	10 O	10 U
A P. TRICHI OROBHENOI							n :	n :	10 0
4-DICHI OROBHENDI							0 2	0 00	0.00
4-DIMETHYL PHENOL							0 2 9	0 : 0	0.00
24-DINITROPHENOL							0.00	0 20 20	0 00
2.4-DINITROTOLUENE							200	200	10 11
2,6-DICHLOROPHENOL							10 17	2 2	= 01
6-DINITROTOLUENE							20 17	200	101
2-ACETYLAMINOFLUORENE							10 U	10 U	10 U
CHLORONAPHTHALENE							10 U	10 U	10 U
METHOROPHENOL							10 U	10 U	10 U
LINETHYI PHENDI							95	10 U	10 U
NAPHTHYLAMINE							10 0	10 0	10 U
-NITROANILINE							0 01	0 00	0.00
-NITROPHENOL							70 67	75 0	75 0
PICOLINE							200	200	700
3.3-DICHLOROBENZIDINE							200	225	200
I,3'-DIMETHYLBENZIDINE							10 U	10 10	10 01
HETHYLCHOLANTHRENE							10 U	10 U	10 U
-MEIHYLPHENOL							10 U	10 U	10 U
FNI I KOANILINE							25 U	25 U	25 U
AMINORIDHENY!							25 ∪	25 U	25 U
- BROMODHENYI DHENYI ETHED							10 U	10 U	10 U
-CHIORO-3-METHYI PHENO!							10 U	10 U	10 U
CHLOROANILINE							10 0	10 U	10 U
							10 U	10 U	10 U

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and	9	20	052	053	35	929		057	058
ne	BLDG	noe	DC	BLDG	BLDG	OHO	ЕСНО		ЕСНО
puno.	2003Q2	2		2003Q2	2003Q2	•	_		1999Q4
ocation	MPT-AC-GW-DPW02I			MPT-AC-GW-DPW02S	MPT-AC-GW-DPW02S	MPT-EP-DPW02I			MPT-EP-DPW04S
rsample	MPT-ACDPW02I-RS-AVG	MPT-ACDPW02I-RS-D	MPT-ACDPW02S-RS	MPT-ACDPW02S-RS-AVG	MPT-ACDPW02S-RS-D	MPT-EP-DPW02I-RS	M02I-01	MPT-EP-GW-MW03S-01	MPT-EP-GW-MW04S-0
sampae	MPI-ACDPW02I-RS-AVG	DU02-RS		MPT-ACDPW02S-RS-AVG	DU01-RS	PW02I-RS	SW-DPW02I-01		MPT-EP-GW-MW04S-0
sacode	AVG	and	dia Sign	GW AVG	92	NORMAI	CW NOBMA	GW NOBMAI	GW
.op_depth	6666-			6666-	_				-9999
oottom_dep	6666-	6666-		6666-		-9999			6866
Jis date	20030425		425	20030425		20030424	508	207	19991207
sample_dat	04/25/03		04/25/03	04/25/03	04/25/03	04/24/03	12/06/99	12/07/99	12/07/99
	- 0					_			
or manao	HANSENT	HANSEN T				0123			
nos	c 050		c 057	C 053	C OSA	HANSEN, I	I N	HANSEN, I	HANSEN.I
4-CHLOROPHENYL PHENYL ETHER								17.07	C 038
4-METHYLPHENOL							200	72.0	0.00
4-NITROANILINE							25.00	200	0 20
4-NITROPHENOL							25 11	25.	25 11
4-NITROQUINOLINE-1-OXIDE							10 UR	40 (18	40 LIB
5-NITRO-O-TOLUIDINE							10 11	10 11	100
7,12-DIMETHYLBENZ(A)ANTHRACENE							101	101	200
A.A.DIMETHYLPHENETHYLAMINE							109	50 111	50 111
ACENAPHTHENE							86	17.	10 11
ACENAPHTHYLENE							1.8.1	10 01	10 17
ACETOPHENONE							10 U	10 17	10 11
ANILINE							J 01	10 01	1 0
ANTHRACENE							21.1	100	2 5
ARAMITE							10 11	101	200
BENZO(A)ANTHRACENE							= 2	2	0 0
BENZO(A)PYRENE							200	2 4	0 0 0
BENZO(B)FLUORANTHENE							200		0.00
BENZO(G,H.I)PERYLENE							2 5	0 2	0 00
BENZO(K)FLUORANTHENE								0 2	0 00
BENZYL ALCOHOL							200	200	0.00
BIS(2-CHLOROETHOXY)METHANE							200	0 2 9	0.00
BIS(2-CHLOROETHYL)ETHER							200	200	
BIS(2-ETHYLHEXYL)PHTHALATE							2 5	2 4	2
BUTYL BENZYL PHTHALATE							100	200	100
CARBAZOLE							18	200	200
CHLOROBENZILATE							10 171	200	1110
CHRYSENE							10 11	200	50 50
OI-N-BOLYL PHINALATE							10 01	11 05	200
DI-N-OCITE PRIMALAIE							U 01	10 11	10 11
PIPENZO ANTUDA CENE							20 U	20 U	20 U
JERNZOE IDAN							10 U	10 U	10 U
SIETHYL PHTHALATE							99	10 U	10 U
JIMETHYL PHTHALATE							10 U	10 U	10 U
JINOSEB							10 UR	10 UR	10 UR
JIPHENYLAMINE									
ETHYL METHANE SULFONATE							10 0	10 U	10 U
ETHYL PARATHION							0 04	10 U	10 U
-LUORANTHENE							0.00	0	10
LUORENE							6.8	10 0	10 U
TEXACHLOROBENZENE							2	0 0	Jo O
1EXACHLOROBUTADIENE								0 00	10 0
JEXACALOROC TCLOPEN I ADIENE							40 LIB	91 5	10 0
JEXACHLOROE I HANE							5 5	KO 0	30 P
NDENO(4.3.3 CONDOPENE							2 5	000	10 OL
SODBIN SOUPTRENE							2 9	3=	10 00
SOPHORONE									2
SOSAFROLE							10 U	10 U	10 U
AETHAPYRILENE							10 U	10 U	10 U
							10 U	10 U	10 UJ



from wed_res.dbf from wed_res.xls from q:'sql_servenmayport\upload

							-		
irder	020	051	052	053	25			0.57	
3	BLDG	50	50	9019	BLDG	ECHO	옷		ECHO
punc	200302			200302	200302		199904	199904	199904
ocation			_	SCOW-DPW02S					MPT-EP-DPW04S
sample									MPT-EP-GW-MW04S-01
ample	ACDPW02I-RS-AVG	DU02-RS	AC-DPW02S-RS	CDPW02S-RS-AVG	U01-RS	PW02I-RS	3W-DPW02I-01	SW-MW03S-01	MPT-EP-GW-MW04S-01
xider	OW OW	AS C	MS GW	GW	WD GIN		OW ON ON	GW	GW
o deoth	9866			986	-888				-9999
dep deb	6666-				6666-				6666
us_date	20030425	20030425	9	9	20030425	_	19991206	207	19981207
ample_dat	04/25/03	04/25/03	04/25/03	04/25/03	04/25/03	04/24/03	12/08/89	12/07/99	12/07/99
alidated	<u> </u>				>	\			
to_proj				0123	0123				ļ.
or manag	HANSEN, I	HANSEN, I	HANSEN, I		HANSEN, I	HANSEN	HANSEN, I	HANSEN, I	TANGEN, I
METUNI METUNINE SILI EONATE					**************************************				0 036
CANTROSO DE MENTE							2 5	3	10.02
A.NITROSCOLDI.N. DECODOR AVINE							200	200	5
V-NITROSODIETHYI AMINE							2 5	200	200
C. CATANON METHY AMINE							2	2 4	
A NITROSOCIETA AMINE							2 5	0 5	2 5
A-NITROSOMETHY! ETHY! AMINE							2 5		200
4-NITROSOMORPHOLINE								2 5	2 4
4-NITROSOPIPERIDINE							200		225
4-NITROSOPYRROLIDINE							= 5	10 11	10 12
APHTHALENE							140	10 11	7 5
LITROBENZENE							1 4	2 5	2 2
O O-TRIETHYL PHOSPHOROTHIOATE							200	2	2
LTO! (MDINE							3		
2-(DIMETHY) AMINO AZOBENZENE							0 2	0 0	0 2
SENTACHI OBOBENZENE							0 0	0.00	190
SENTACTI ODOCTUANE					Ì		0 01	0.01	10 U
SENTACH DECMITED DENIE							n os	0.00	50 U
SENTACHI ODODHENOI							10 0	10 0.1	10 UJ
SHENACETIN							10 U	10 0	10 U
MENANTHORNE							10 U	10 0	10 U
NEW COLUMN							28	0.00	10 0
SPONAMIDE							0 01	10 O	10 U
SVBENE							10 U	10 0	10 U
WRIDINE							3.6 J	10 01	10 U
AFROLE							0.01	30 0	10 0
NII FOTEDD							0 00	ט פר	10 U
HIONAZIN									
esticides/PCBs (unit)									
14:-DDD									
1.4-DDE							0.03 0	0.00	U 200
I,4'-DDT							0 600	0.05 U	0.05 U
ILDRIN							11 500	- 400	1 300
ILPHA-BHC							11 500	2 300	1 300
ILPHA-CHLORDANE							1 500	11 5000	1 200
NOCLOR-1016								1 1	1 1
4ROCLOR-1221							=		-
ROCLOR-1232							100	=	= -
ROCLOR-1242							10	, =	
ROCLOR-1248								, =	=
ROCLOR-1254							===	=	+
ROCLOR-1260								2=	=
JETA-BHC							0.05 U	0.05	0.05 U
JELTA-BHC							0.05 U	0.05 U	0.05 U
JIELDRIN							0.05 U	0.000	0.05 U
NDOSULFAN I							0.05 U	005 U	0.05 U
INDOSOLFAN II							0.05 U	0.05 U	0.05 U
NDOSOLFAN SOLFATE							0.05 U	0.05 U	0.05 U
NINGAN.							0.05 U	0.05 UJ	0.05 U.J
SUDMIN ALDERT DE							0.05 U	0.05 U	0.05 U

c c (sample set mod) 3/7/20078:56 AM ull appendix results

irder	050			053	954		950	057	850
3 =	200	in a	90.08	ري م نظر		ECHO	ЕСНО		ЕСНО
punc	200302	2	2	200302	200302				199904
				-GW-DPW02S	MPT-AC-GW-DPW02S	-DPW02I			MPT-EP-DPW04S
	MPT-ACDPW02I-RS-AVG	MPT-ACDPW02I-RS-D	MPT-ACDPW02S-RS	MPT-ACDPW02S-RS-AVG	MPT-ACDPW02S-RS-D		MPT-EP-GW-DPW02I-01	MPT-EP-GW-MW03S-01	MPT-EP-GW-MW04S-01
				CDPW02S-RS-AVG	MPT-DUD1-RS	PW0ZI-RS			MPI-EP-GW-MW045-01
acode	AVG			AVG	DO B	NORMAL	AL	AL.	NORMAL
depth dc	6666-			6666	6666-				6866-
ottom_dep	-9999			-9999	-9999				-9999 19991207
ample dat	20030423	70030423	20030425 047503	20030425	0475/03		12/06/99	12/07/99	12/07/99
alidated					<u> </u>				
	0123			1123	0123				
	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN.T
	c_050			. 053	c 054				0.056
ENDRIN KETONE							0 200	0.000	0.00
SAMMA-BHC (LINDANE)							0.00	2000	0 800
HEPTACHLOR							0.05 0.1	0.000	0.05 U
-IEPTACHLOR EPOXIDE							0.005	0.05 U	0.05 U
SODRIN							0.1 U	0.1 U	0.1 U
(EPONE							3-	1 U	10
METHOXYCHLOR							0.1 U	0.1 Ü	0.1 0.1
SULFOTEPP							100 U	10	1 0
LOXAPHENE							2 U	2 U	2 U
IrganoPhPesticides (ug/L.)									
JIMETHOATE							100 UJ	1 W	1 W
JISULFOTON							100 U	1.0	1 0
-AMPHUK							100 U	1 0	1.0
WE HYL PAKATHION							100 U	1 0	1 0
HOKATE							100 U	1 U	1 0
INIONAZIN							100 U	1 0	10
eroicioes (ug/L)									
The state of the s							10	10	10
(4.9-IP (SILVEX)							10	1 0	1 0
SINOSEB							4 0	4 0	0 4 0
norganics (uo/L)							NO 00	20 00	0.0
ILUMINUM							738 11	738 11	726 11
INTIMONY							28.11	26.11	26.1
IRSENIC							27.0	o o	27.11
SARIUM							30.2 .1	128.1	267.1
SERYLLIUM							03 11	03.11	03.11
ADMIUM							02.0	02.11	0.50
SALCIUM							102000	105000	93100
HROMIUM							2.5	16 U	16.0
COBALT							0.7 U	0.7.0	0.7.0
OPPER							3	11 U	1.1 U
*CN							207	2570	81.3 U
AACABOUR							1.5 U	1.5 U	1.5 U
AANGANESE							32200	43900	23200
AFRICIAN							83.6	137	14.3
MOLYBDENUM							0.11.0	0.11.0	0.11 U
JICKEL									
OTASSIUM							13 U	13 0	13 U
SELENIUM							47 1	00162	14300
ILVER							18 :	7.4	4,7 0
MNIGO							87100	0 01	0.61
HALLIUM	0.27 U	0.44 U	0.14 U	0.45 (1	0.78.11	0.18 11	24 15	24 11	55/00
<u>N</u>						2	25.0	0 17	8:7
ANADIUM							14	30	17
INC							223	1.7 U	6.1 U
Iscellaneous Parameters (mg/L)									
TANIDE (ug/L)							2.2 UJ	22 UJ	2.2 UJ



from wed_res.dbf from wed_res.xls from q'sqi_server'mayport'uploac

C C C C C C C C C C					3			
BUDG 200302 MPT-AC-GW-DPW02! MPT-AC-DPW02!-RS-AVG MPT-ACDPW02!-RS-AVG GW GW			•	ن	U	U	U	U
200302 MPT-ACCGW-DPW02I MPT-ACCDW02I-RS-AVG MPT-ACDPW0ZI-RS-AVG GW GW			BLDG	BLDG	ЕСНО	ЕСНО		ЕСНО
MPT-AC-GW-DPW02I MPT-AC-DPW02I-RS-AVG MPT-AC-DPW02I-RS-AVG GW GW		200302	200302	2003Q2	200302			199904
MPT-ACDPW02I-RS-AVG MMT-ACDPW02I-RS-AVG GW GW AVG		MPT-AC-GW-DPW02S	APT-AC-GW-DPW02S	-GW-DPW02S				MPT-EP-DPW04S
MPT-ACDPW02I-RS-AVG GW AVG		MPT-ACDPW02S-RS	APT-ACDPW02S-RS-AVG					MPT-EP-GW-MW04S-01
GW		MPT-AC-DPW02S-RS	APT-ACDPW02S-RS-AVG	MPT-DU01-RS	MPT-AC-DPW02I-RS	MPT-EP-GW-DPW02I-01	MPT-EP-GW-MW03S-01	MPT-EP-GW-MW04S-01
AVG		OW WS	M.					We
		No doe	IVG	DUP		NORMAL	NORMAL	NORMAL
6866-		_	6666	6666-	6666-	-8888	6668-	6858
6666-			6666-			6666	6666-	6666
20030425			0030425	125	20030424	19991206	19991207	19991207
04/25/03			04/25/03		04/24/03	12/06/99	12/07/98	12/07/89
<u>></u>								
to_proj 0123 0123		0123	5123	0123	0123			
iroj manag HANSEN,T HANSEN,	_		HANSEN,T	HANSEN.T	HANSEN.T	HANSEN	HANSEN	HANSEN
ort c 050	51	c 052 c	c 053	0.054	c 055		c 057	058
NITRATE								
NITRITE								
SULFATE								

from wed_sam.dbf from wed_res.dbf from wed_res.xls from q:sqt_server/mayport\upload

ler	050 C	၁ 090	C	.062 C	063 C	064 C - BLDG 1490	S90	9 90	067	998 C
700	.0000	20000	20000	20000	***************************************	,	-	200303	200302	2003002
round	ZUUUUZ MPT-G4-B07	Z00003 MPT-G4-B34							-DPW03DD	MPT-TC-DPW03I
	MPT-G4-GW-07-05	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-64-GW-40-04	98-05		MPT-TC-DPW02D-RS	MPT-TC-DPW03D-RS		MPT-TC-DPW03I-RS
	MP1-64-GW-07-05 GW	MP1-64-6W-34-05			CD-GOM	en-/ew			JPW03UU-KS	MPI-I C-DPWdsI-RS
	NORMAL	¥r.	ΑL	NORMAL	AL	NORMAL	4	AL		NORMAL
top_depth bottom dep	6666-	6666-	6666-		6666			6866-	6866-	5666-
	20000627					10	20030422			20030422
Sample_dat	06/2//00	00//0//0	00//0//0	00//0//0	03/05/01	03/05/01		D4722/03	04/22/03	04/22/03
	0123									0123
	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
1,1,1,2-TETRACHLOROETHANE	1 0	10	1 0	1.0	1.0	1.0				
1,1,1-TRICHLOROETHANE	1 O	10	10	10	1 0	10				
1.1.2.2-TETRACHLOROETHANE	7		o :	7	10	0:				
1.1.2-I RICHLOROE IMANE		10		7	10	0 :				
1 1-DICHLOROFTHENE		0.03	0 =	7.5	9.7	5 =				
12 STRICHI OROPROPANE				1,1		2 -				
1.2-DIBROMO-3-CHLOROPROPANE	2 =	2 =	2 =							
1,2-DIBROMOETHANE	ן ח					2 -				
1,2-DICHLOROETHANE	1 U	7	10		1	111				
1,2-DICHLOROPROPANE	J U	10	10	10	10	10				
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U				
2-CHLOROETHYL VINYL ETHER	10	J U	10	1 0	1 U	1 0				
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U				
3-CHLOROPROPENE	J C	10	J C	J C	7	1 C				
ACETONE	10 0	10 D	10 0	10 0	D 02	10 C				
ACETOMITE E	0 00	0.01	0 00	10 U	0.01	0 00				
ACROLEIN	40 OF	S 05	ZO 07	40 UK	20 UK	20 OX				
ACRYLONITRILE	10 OF	10 U	5 0 0	10 5	200	Z = 2				
BENZENE	10	1 U	10	10		2 -				
BROMODICHLOROMETHANE	1 U	10	7	10	10	10				
BROMOFORM	1 U	1.0	1 0	1.0	1.0	1 0				
OADDON DIGHT TOT	2 U	2 U	2 U	2 U	2 U	2 U				
CARBON TETRACHIORIDE			10	0.11 J	D :	J .				
CHLOROBENZENE	2 -				> =	0				
CHLORODIBROMOMETHANE	2 -				=======================================					
CHLOROETHANE	1 0	10	J C	10	10	0 -				
CHLOROFORM	1 U	1 0	1 0	1.0	10	1 U				
CHLOROMETHANE	0.48 J) - -	10	1 C	1 U	1 O				
CIS-12-DICHI OROFTHENE			10	10	10	J .				
CIS-13-DICHLOROPROPENE	0.50	9 -	0.5.0	0 00	0.5 0	0.5 U				
DIBROMOMETHANE	1 C	10	0	2 =	2 =					
DICHLORODIFLUOROMETHANE	1 0	10	0.1	1 C	70	20				
ETHYL METHACRYLATE	J U	10	1 0	1.0	n r	10				
EIHYLBENZENE	7	J C	1 U	10	10	1 0				
METHACEYI ONITRUE	50 UR	50 UR	SO UR	50 UR	50 UR	20 n				
METHANE	0	0		10	10	J C				
METHYLIODIDE	1	-	-							
METHYL METHACRYLATE	10	2 -		0 =						
METHYL TERT-BUTYL ETHER	S U	5 U	5.0	5 0	1 2	- 5				
METHYLENE CHLORIDE	1 O	10	1 0	10	10	10				
PROPIONITRILE	4 UR	4 0	4 U	4 U	4 UR	4 UR				
TETRACHI OBOETHENE	10	J :	10	1 C	1 U	1 0				
TOLUENE					1	D :				
				חר	1 O L	1 U				



Column C			-								
Marche M	_	ŝo					BLDG 1490			Šu	8 0
WITCH CANADA WITC	punos	200002	200003		200003				200302	200302	200302
Column	location	MPT-G4-B07								MPT-TC-DPW03DD	MPT-TC-DPW03I
Column	nsample	MPT-64-GW-07-05								MPT-TC-DPW03DD-RS	MPT-TC-DPW03I-RS
Marie No. Mari		GW GW-GW-U3	20-65-40	50-55-M6	5		CO-/OAA				GW COPWOSI-NS
Comparison Com		NORMAL									NORMAL
Company Comp		5886-								5666- 5666-	6666-
Control		20000627	707						422	20030422	20030422
MANSENT MANS		06/27/00								04/22/03	04/22/03
MANSENT MANS	-	0123								0123	0123
Color		HANSEN,T		SEN.T	T,N	EN,T	EN.T	T,N	T,NE	HANSEN,T	HANSEN,T
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- 1									c_068
10	TOTAL IX-DICALOROE INENE) = - -					-				
10	TRANS-1,2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.50	0.50	11 50				
10 10 10 10 10 10 10 10 10 10 10 10 10 1	TRANS-1,3-DICHLOROPROPENE	1 0	10	10	10	10	10				
10 10 10 10 10 10 10 10 10 10 10 10 10 1	TRANS-1,4-DICHLORO-2-BUTENE	1 U	1 U	1 U	1 U	1 0	1 U				
1.00	TRICHLOROETHENE	10	1 0	1 0	1 U	10	1 U				
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	VINY ACETATE	2 U	2 U	2 U	2.0	2 0	2 U				
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	VINYL CHLORIDE	- 2	- 12	3 =	2 =		0 :				
10 U	Semivolatile Organics (ug/L)										
10 U	1,2,4,5-TETRACHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	1,2,4-TRICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	1.2-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U				
10.0	1.3.5-1 KINI KUBENZENE	10 UR	10 0	D :	10 C	10 U	10 C				
10	13-DINITROBENZENE	10 0	200		0 0	10 0	2 5				
10 U	1.4-DICHLOROBENZENE	10 01	10 11	2 00	2 5	2 5	2 5				
10 U	1,4-DIOXANE	10 U	10 U	JO 01	10 0	10 01	10 0				
10 U	1,4-NAPHTHOQUINONE	10 U	10 U	10 U	10 ∪	10 U	10 U				
10 U	1.4-PHENYLENEDIAMINE	10 U	10 U	10 U	10 U	10 U	10 U				
10	2. OVVDICA CHI OBOBDOBANE	10 0	10 n	10 U	10 C	10 U	10 C				
10	2346-TETRACHI OROPHENOI	0 0	0 00	0 0 0	10.0	10 0	0 :			-	
10 U	2.4.5-TRICHLOROPHENOL	2 9		100	0.00						
10 U	2.4.6-TRICHLOROPHENOL	0.01	10 U	10 1	200	2 = 0	2 2				
25 U 25 U 25 U 26 U 40 U <th< td=""><td>2.4-DICHLOROPHENOL</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 C</td><td></td><td></td><td></td><td></td></th<>	2.4-DICHLOROPHENOL	10 U	10 U	10 U	10 U	10 U	10 C				
25 U 10 U <th< td=""><td>2.4-DIMETHYLPHENOL</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td></td><td></td><td></td><td></td></th<>	2.4-DIMETHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U				
10	2.4-DINITROPHENOL	25 U	25 U	25 U	25 U	25 U	25 U				
10 U	26-DICHLOROPHENOL	2 5	2 5	10.0	2 5	190	9 9				
10 U	2,6-DINITROTOLUENE	0.00	10 0	2 9	2 5		200				
10 U 10 U <th< td=""><td>2-ACETYLAMINOFLUORENE</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 0</td><td>10 0</td><td></td><td></td><td></td><td></td></th<>	2-ACETYLAMINOFLUORENE	10 U	10 U	10 U	10 U	10 0	10 0				
10 U	2-CHLORONAPHTHALENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	2-METHYLNAPHTHAI ENF	0 0 0	2 5	10 0	2 9	100	10 U				
10 U	2-METHYLPHENOL	10 0	100	100	2 5		0 = 0				
25 U 25 U <th< td=""><td>2-NAPHTHYLAMINE</td><td>10 U</td><td>10 U</td><td>10 C</td><td>10 D</td><td>2 0</td><td>2 2</td><td></td><td></td><td></td><td></td></th<>	2-NAPHTHYLAMINE	10 U	10 U	10 C	10 D	2 0	2 2				
10 U	2-NITROANILINE	25 U	25 U	25 U	25 U	25 U	25 U				
10 U	2-NITROPHENOL	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	3 3"DICHI OBOBENZIDINE	0 :	10 0	10 U	2	10 U	10 U				
10 U	3.3-DIMETHYLBENZIDINE	2 2	2 5	0 00	2 5	2 5	19 0				
10 10 10 10 10 10 10 10	3-METHYLCHOLANTHRENE	100	10 U	100	2 5	2 5	2 5	+			
25 U 25 U <th< td=""><td>3-METHYLPHENOL</td><td>10 U</td><td>10 U</td><td>10 U</td><td>D 01</td><td>10 0</td><td>10 17</td><td></td><td></td><td></td><td></td></th<>	3-METHYLPHENOL	10 U	10 U	10 U	D 01	10 0	10 17				
25 U	3-NITROANILINE	25 ∪	25 U	25 U	25 U	25 U	25 U				
8 10 10 10 10 10 10 10 10 10 10 10 10 10	4,5-DINITRO-2-METHYLPHENOL	25 U	25 U	25 U	25 U	25 U	25 U				
10 U	4-BROMOPHENYL PHENYL ETHER	2 5	10 C	10 C	D = 0	D :	10 U				
10 0 10 0 10 0	4-CHLORO-3-METHYLPHENOL		10 U	10 0	2 0	2 = 0	D 0.0				
	4-CHLOROANILINE	10 U	10 U	10 U	10 U	10 0	202				

Marcol M	order	059	090	190	062	063	064 C - BI DG 1490	9065	990	067 C	068
MATCH MATC	no))	,		į			Ş		00000
March Marc	round location	2000Q2 MPT-G4-B07	2000Q3 MPT-G4-B34		200003 MPT-G4-840						MPT-TC-DPW03I
Colored Colo	nsample	MPT-G4-GW-07-05	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-40-04						MPT-TC-DPW03I-RS
Common	sample	MPT-G4-GW-07-05 GW	MPT-G4-GW-34-05 GW	3W-35-05	3W-40-04	-G4-GW66-05		- I C-DPW0ZD-KS		P-WUSUN-RS	GW GW
Comparison Com	sacode	NORMAL	NORMAL			MAL		٩٢			NORMAL
Name	top_depin bottom_dep	6666-	5666-								6666
Column C	gıs_date sample_dat	20000627 06/27/00	20000707 07/07/00				·	~	~-		20030422
MANSENT MANS	validated	10133	L 0123							_	7
Color Colo	proj manag	HANSEN,T	HANSEN,T	SEN,T		EN.T		T, N	EN,T		HANSEN,T
10	sort		c 060	061							890 3
25. U	A METHY: OHENOI	9 9	190	10 0	2 5	0 0	0 0				
150 150	4-NITROANILINE	25 U	25 U	25 U	25 U	25 U	25 U				
10 U	4-NITROPHENOL	25 U	25 U	25 U	25 U	25 U	25 U				
10	4-NITROQUINOLINE-1-OXIDE	10 U	10 U.	10 UR	10 U.	10 U	100				
550 U	7 12-DIMETHYL BENZANTHRACENE	100	10.01	10 00	1 2 2	9 9	2 2 2				
10	A,A-DIMETHYLPHENETHYLAMINE	D 05	⊃ 95	D 09	09	D 08	7 05				
10 U	ACENAPHTHENE	10 U	10 U	10 U	10 U	10 U	10 U				
100 1 100 1	ACENAPHTHYLENE	D 02	100	10 U	10 U	10 U	2				
10 U	ACELOPHENONE	10 0	9 9	10 0	9 9	10 0	9 9				
10 U	ANTHRACENE	2 5	2 5		2 5	2 2	2 5				
10	ARAMITE	10 U	0 01	10 U	10 0	10 U	10 U				
10 U	BENZO(A)ANTHRACENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	BENZO(A)PYRENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	BENZO(B)FLUCKAN I HENE	19 0	9 9	2 5	10 C	10 0	2 5				
10 U	BENZOKNFLUORANTHENE	2 2	200	100	2 6	200	2 5				
10 U	BENZYL ALCOHOL	10 U	10 U	10 U	10 U	10 U	10 U				
5 U 5 U 10	BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	BIS(2-CHLORUE IMYL)E THEK	10 0	0 0	10 U	10 U	10 U	9				
10 U	BUTYL BENZYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	200				
10 U	CARBAZOLE	10 U	10 U	10 U	10 U	10 U	10 C				
10 U	CHLOROBENZILATE	10 U	10 U	10 U	10 U	10 ∪	10 U				
10 U	DIN BITY BHTHA! ATE	0 =	0 6	2 5	10 C	10 U	10 U				
20 U	DI-N-OCTYL PHTHALATE	10 0	10 OF	0 00	10 0	0 0	100				
10 U	DIALLATE	20 U	20 U	20 U	20 U	20 U	20 U				
10 UR	DIBENZO(A, H)AN I HKACENE	100	0 0	10 U	10 U	10 0	10 U				
10 UR	DIETHYL PHTHALATE	2 0	2 6	2 2	100	2 9	2 2				
20 U	DIMETHYL PHTHALATE	10 UR	10 UR	10 UR	10 UR	19 0	10 U				
10 U	DINOSEB	20 U	20 U	20 U	20 U	20 U	20 U				
10 U	ETHY! METHANE SUI FONATE	9 9	10 0	D 0	10 C	D :	10 U				
10 U	ETHYL PARATHION	2	0 2	2	0.00	0 0	0 02				
10 U	FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 U	FLUORENE	10 U	10 U	10 U	10 U	10 U	10 U				
10 UR 10 U 10 U	HEXACHLOROBENZENE HEXACHLOROBILITADIENE	5 5	10 U	₽	10 U	JO 01	10 U				
10 U	HEXACHLOROCYCLOPENTADIENE	91.00	91.05	0.00	10.0	0 9	10 0				
10 U	HEXACHLOROETHANE	10 01	10 U	200	200	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 E				
YRENE 10 U 10	HEXACHLOROPROPENE	10 U	10 U	10 U	10 U	10 0	10 0				
10 U	INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	10 U	10 U	10 U				
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sample	MPT-G4-GW-07-05	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-40-04		MPT-G4-GW87-05	MPT-TC-DPW02D-RS	MPT-TC-DPM03D-RS		MPT-TC-DPW03I-RS
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NITRITE										
SULFATE										

order aoc	690	070 C	071 C	072 C	073 C	074 C	075 C	076 C	0 77
no	202002	200302	200302	200302	200302	200302	199904	199904	1999Q4
iocaton	DPW03S	-DPW04S	-DPW06St						MPT-TC-DPW02D
nsample	MPT-TC-DPW03S-RS	MPT-TC-DPW04S-RS		MPT-TC-DPW06S-RS IN	MPT-TC-DPW09D-RS	MPT-TC-DPW09I-RS N	MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW02D-01
natux matrix	CH-CCOMAL		SALIDOAALI						GW GW
sacode	AL.	IAL	AL	NORMAL	NORMAL	NORMAL			NORMAL
top_depth bottom deo	6666-		6666				-		6666-
gıs_date	1 22	20030422		21	20030423		130	130	19991203
sample_dat			04/22/03	04/22/03		04/23/03	11/30/99	11/30/99	12/03/99
clo_proj									
proj manag	HANSEN T	HANSEN,T	HANSEN,T	HANSEN.T	HANSEN T	C 074	C 075	G 076	G 077
Volatile Organics (ug/L)									
1,1,1,2-TETRACHLOROETHANE							1.0	1 U	5 U
1,1,1-TRICHLOROETHANE							10	0.	3. C
1,1,2,2-TETRACHLOROETHANE							0 =	0 -	0.6
1 1-DICHI OROFTHANE							2		28.1
1.1-DICHLOROETHENE							10	10	0 85 J
1,2 3-TRICHLOROPROPANE							1 U	1 0	5 U
1,2-DIBROMO-3-CHLOROPROPANE							10	1 0	5 U
1.2-DIBROMOETHANE							0:	0	0.5
12-DICHLOROE HANE							5 -	0 -	0 6
2-BUTANONE							10 01	0 OF	0.08
2-CHLOROETHYL VINYL ETHER							1 UR	1 UR	5 UR
2-HEXANONE							10 U	10 U	50 U
3-CHLOROPROPENE							10	1.0	5 U
4-METHYL-2-PENTANONE							10 0	10 0	20 02
ACETONIE E							0 00	0 00	0 00
ACROLEIN							10 UR	10 UR	SO UR
ACRYLONITRILE							10 U	10 U	50 0
BENZENE							10	1 U	5 U
BROMODICHLOROMETHANE							10	n L	5 U
BROMOFORM							1 0	1 0	5 U
CARBON DISLII FIDE							2 0	2 0	10 0
CARBON TETRACHLORIDE								-	20 4
CHLOROBENZENE							10	חר	200
CHLORODIBROMOMETHANE							1.0	1.0	5 U
CHLOROETHANE							1 U	1 0	5 U
CHLOROMETHANE							0 -		0 5
CHLOROPRENE							70		0.50
CIS-1,2-DICHLOROETHENE							0.5 U	0.5 U	57
DIROMOMETHANE							10	1 U	5 U
DICHLORODIFLUOROMETHANE								0 -	2.0
ETHYL METHACRYLATE							3=		50 c
ETHYL BENZENE							1 0	2 7	200
ISOBUTANOL							50 UR	50 UR	250 UR
METHANE							1 0.1	1 UJ	s uJ
METHYL IODIDE									
METHYL METHACRYLATE							0	10	5 0
METHYL TERT-BUTYL ETHER							700	L 0.3	s m
METHYLENE CHLORIDE							10	10	0.5
PROPIONITALE							4 UR	4 UR	20 UR
TETRACHI OROETHENE							1 0	1 0	5 U
TOLUENE							0	1 0	5.0
							10	10	5 U



remo	DR9	020				074	075	076	077
aoc	U	U	Ü	Ü	O	O	O	<u>υ</u>	U
no									
Lonud	2003Q2	2003Q2	200302		2003Q2	200302	1999Q4	199904	1999Q4
location	MPT-TC-DPW03S	MPT-TC-DPW04S				MPT-TC-DPW09I	MPT-TC-DPW01SD	MPT-TC-DPW01SD	MPT-TC-DPW02D
nsample	MPT-TC-DPW03S-RS	MPT-TC-DPW04S-RS	MPT-TC-DPW06I-RS	MPT-TC-DPW06S-RS		MPT-TC-DPW09I-RS	MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW02D-01
	PW03S-RS	PW04S-RS	PW06I-RS	PW06S-RS	PW09D-RS	PW09I-RS	MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW0ZD-01
matrix	SW.	SW.	AS.	O.W.	ÖW	GW	GW	GW	%S
							NORMAL	NORMAL	NORMAL
top dept	6866-	6866	6888-			0000	0000	5000	6666-
	-9999	-9888	200	400		20030423	19991130	19991130	19991203
sample dat	04/22/03	04/22/03			04/23/03	04/23/03	11/30/99	11/30/99	12/03/99
validated	>	>				>			
	0123	0123				0123			
nag	HANSEN,T	HANSEN,T	EN.T	HANSEN,T	EN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
	690 0			c_072 c	c_073		c_075		- 1
TOTAL 1,2-DICHLOROETHENE							1 0	10	74
TOTAL XYLENES							1 n	1 U	5.0
TRANS-1,2-DICHLOROETHENE							0.5 U	0.5 U	17
TRANS-1.3-DICHLOROPROPENE							10	J C	0.5
TRANS-1,4-DICHLORO-2-BUTENE							J L	10	5 U
TRICHLOROETHENE							D F	10	18
TRICHLOROFLUOROMETHANE							2 0	2 U	10 U
VINYL ACETATE							D F	10	5 U
VINYL CHLORIDE							10	0,1	5.0
Semivolatile Organics (uo/L.)									
124 F.TETRACHI OROBENZENE				_			101	40.11	17 01
4 2 4 TRICHI OBORENZENE							2 4	2 9	2 4
1.2.4-I NICHEUROBENZENE							0 02	0.01	0 01
1,2-DICHLOROBENZENE							-10 U	10 U	O OL
1,3,5-TRINITROBENZENE							10 U	10 U	10 U
1,3-DICHLOROBENZENE							10 U	U 01	10 U
1,3-DINITROBENZENE							10 U	10 U	10 U
1.4-DICHLOROBENZENE							10 11	10 11	10 11
14-DIOXANF							40 11	101	100
1 4-NAPHTHOOLINONF									1 00
1 4-PHENYI ENFINEMENT								2 5	
1.NADHTHY AMINE							000		200
OVOICE OUT OBORDONE							2	0 2	2
2.2. CATETRACHI ODODHENOI							0.00	0 2	2
2,3,4,0-1E1RACHLOROPHENOL							10 U	10 U	10 U
2.4.5-TRICHLOROPHENOL							10 U	10 U	10 U
2.4.6-TRICHLOROPHENOL							10 U	10 U	10 U
2.4-DICHLOROPHENOL							10 U	10 U	10 U
2,4-DIMETHYLPHENOL							10 U	10 U	10 U
2,4-DINITROPHENOL							25 U	25 U	25 U
2,4-DINITROTOLUENE							10 U	10 U	10 U
2,6-DICHLOROPHENOL							10 U	10 U	10 U
2.6-DINITROTOLUENE							10 U	10 U	10 U
2-ACETYLAMINOFLUORENE							10 U	10 U	10 U
2-CHLORONAPHTHALENE							10 U	10 U	10 U
2-CHLOROPHENOL							10 U	10 U	10 U
2-METHYLNAPHTHALENE							10 U	10 U	10 U
2-METHYLPHENOL							10 U	10 U	10 01
2-NAPHTHYLAMINE							10 U	10 U	10 U
2-NITROANILINE							25 U	25 U	25 U
2-NITROPHENOL							10 (1	10 01	10 11
2-PICOLINE							10 U	10 (1	10 11
3,3'-DICHLOROBENZIDINE							10 11	10 11	2 4
3.3.DIMETHYLBENZIDINE							100	2 5	200
3-METHYLCHOLANTHRENE							2 9	101	3
3-METHYLPHENOL							200	2 5	
3-NITROANILINE							2 2 2	0 00	0 01
4.6-DINITRO-2-METHYLPHENOL							0 52	75 0	0 67
4-AMINOBIPHENYL							100	100	
4-BROMOPHENYL PHENYL ETHER							10 11	= 0	200
4-CHLORO-3-METHYLPHENOL							1000	5 5	200
4-CHLOROANILINE							200	100	100
			4			1	7 O OI	20.01	ט טר

order aoc on	0 9 0	070 C	071 C	072 C	073 C	074 C	075 C	076 C	077 C
round location	2003Q2 MPT-TC-DPW03S						1999Q4 MPT-TC-DPW01SD		1999Q4 MPT-TC-DPW02D
nsample sample	MPT-TC-DPW03S-RS MPT-TC-DPW03S-RS	S S	MPT-TC-DPW06I-RS	MPT-TC-DPW06S-RS	S S	MPT-TC-DPW09I-RS	MPT-TC-GW-DPW01D-01 MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01 MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW02D-01 MPT-TC-GW-DPW02D-01
matrix	GW NORMAL								GW
top_depth bottom_dep	6666-	6666-						6666-	6866-
gıs_date sample dat	20030422 04/22/03	20030422 04/22/03	422 33			20030423	19991130	19991130	19991203
validated	.	ł	}	}					
co proj proj manag	O123 HANSEN.T	0123 HANSEN,T	0123 HANSEN,T	0123 HANSEN,T	0123 HANSEN,T	0123 HANSEN,T		HANSEN,T	HANSEN,T
sort	690°°							c_076	c_077
4-CHLOROPHENYL PHENYL ETHER 4-METHYLPHENOL							- t	10 0	10 0
4-NITROANILINE							25 U	25 U	25 U
4-NITROPHENOL							25 U	25 U	25 U
4-NITROGUINOLINE-1-OXIDE							10 UR	10 UR	10 UR
7.12-DIMETHYLBENZ(A)ANTHRACENE							100	0 00	10 0
A,A-DIMETHYLPHENETHYLAMINE							20 CM	rn os	2005
ACENAPHTHENE							10 U	10 U	10 U
ACENAPHIHYLENE							10 U	10 U	10 U
ACE OF TENONE							10 U	10 U	10 U
ANTHRACENE							0 01	0.00	10 0
ARAMITE							0.00	0.00	70.0
BENZO(A)ANTHRACENE							20.02	10 05	100
BENZO(A)PYRENE							10 U	10 U	10 n
BENZO(B)FLUORANTHENE							10 U	10 U	10 U
BENZOKKELIORANTHENE							10 U	10 U	10 U
BENZYL ALCOHOL							0 00	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE							200	5 5	
BIS(2-CHLOROETHYL)ETHER							10 0	10 U	
BIS(2-ETHYLHEXYL)PHTHALATE							5 0	5 U	U S
CARBAZOI F							10 U	10 U	10 U
CHLOROBENZILATE							10 U	10 U	10 U
CHRYSENE							10 07	3 5	10 UJ
DI-N-BUTYL PHTHALATE							100	2 2	
DI-N-OCTYL PHTHALATE							U 01	10 U	100
DIBENZO/A HIANTHRACENE							20 U	20 U	20 U
DIBENZOFURAN							10 C	10 U	10 U
DIETHYL PHTHALATE							2 9	0 0 0	0 0
DIMETHYL PHTHALATE							10 UR	10 UR	10 UR
DIPHENYI AMINE									
ETHYL METHANE SULFONATE							10 U	10 U	10 U
ETHYL PARATHION							0 0	10 U	10 U
FLUORANTHENE							- 5	0 - 4	0 -
PLUORENE HEXACUL OBOBENIZENT							100	200	
HEXACHLOROBENZENE							10 U	10 U	200
HEXACHI OROCYCI OPENTADIENE							10 U	10 U	10 0
HEXACHLOROETHANE							10 UR	10 UR	10 UR
HEXACHLOROPROPENE							10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE							2 5	10 U	10 U
SODRIN							10.0	10 U	10 U
ISOPHURONE ISOSAEDO E							10 17	10 11	10 10
METHAPYRILENE							10 0	10 C	2 0
							10 U	10 U	10 U



from wed_res.dbf from wed_res.xls from q.\sql_servet/mayport\uplo

077 C	1999Q4 MPT-TC-DPWQZD MPT-TC-GW-DPWQZD-01 MPT-TC-GW-DPWQZD-01 MPT-TC-GW-DPWQZD-01 GGW MPT-TC-GW-DPWQZD-01 MPT-TC-GW-DPWQZD-01 GGW -9999	-9999 19891203 12/03/99	HANSEN,T	П	10 U	10 U	10 U	10 0	10 U	10 U	10 U	0 0	20-	10 U	10 U	0 9	200	10 U	10 U	10 U	10 C	100	200	10 U			0.05 U	0.05 U	1 500	0.05 U	0.05 U	10			100	10	1 U	0.05 U	0.00	0.05 U	0.05 U	0.05 U	0.05 U
076 C	PW01SD W-DPW01S-01	-8999		10 U	10 U	0.00	10 U	10 C	10 U	10 U	10 U	0 0 0	2 -	10 U	10 Ú	D = 5	000	10 U	10 UJ	10 U	10 0	0 00	10 U	10 U			0.05 U	0.05 U	0.0062	0.0074 R	0.05 U	0:	0 =	, ,	10	1 0	1 0	0.000	0.000	0.05 U	0.05 UJ	0.05 U	0.05 UJ
075 C	PW01SD W-DPW01D-01	-9999 19981130 11/30/99		10 U	2 5	D 01	10 U	10 -	10 U	10 U	10 0	0 00	0.1	10 U	10 U	0 05	10 0	10 U	10 UJ	10 U	10 0	0.00	10 U	10 U			0.05 U	0.05 0	0.05 U	0.05 U	0.05 U			10,	1 0	1.0	7	0 600	0.05	0.05 U	0.05 U	0.05 U	0000
074 C	2003Q2 MPT-TC-DPW09I-RS MPT-TC-DPW09I-RS GW NORMAL -9999	-9999 20030423 04/23/03 Y	0123 HANSEN,T c_074																																								
073 C	PW09D PW09D-RS PW09D-RS	-9999 20030423 04/23/03 Y	0123 HANSEN,T c_073																																								
072 C	PW06SI PW06S-RS PW06S-RS		U123 HANSEN,T c_072																																								
071 C	PW06SI PW06I-RS PW06I-RS	-9999 20030422 04/22/03 Y	EN,T																																								
070 C	r2 C-DPW04S C-DPW04S-RS C-DPW04S-RS	-9999 20030422 04/22/03 Y	HANSEN,T																																								
690	2 C-DPW03S C-DPW03S-RS C-DPW03S-RS	-9989 20030422 04/22/03 04/23	EN,T																																								
					N-N-BUTYLAMINE	N-NITROSODIETHYLAMINE	METHYLAMINE	ETHYLETHYLAMINE	ORPHOLINE	ABOUDINE	E	NE.	IYL PHOSPHOROTHIOATE	O-TOLUIDINE D-MINOVAZOBENIZENE	OBENZENE	OETHANE	ONITROBENZENE	COPHENOL	u A							3s (ug/L)				DANE	9	F	21	2	0 4	0					SULFATE		YYDE
order aoc ou	round location nsample sample matrix secode top_depth	pottom_dep gis_date sample_dat validated cto proj	pro manag	METHYL MET	N-NITROSO-D	N-NITROSODI	N-N-IN-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-	N-NITROSOM	N-NITROSOM	V-NITROSOPY	NAPHTHALEN	NITROBENZEI	O.O.O.TRIETH	O TOLUIDINE P.DIMETHYLA	PENTACHLOR	PENTACHLOR	PENTACHLOR	PENTACHLOR	PHENACETIN	PHENOL	PRONAMIDE	PYRENE	PYRIDINE	SHEOTED	THIONAZIN	Pesticides/PCBs (ug/L)	4.4-DDE	4.4DDT	ALDRIN	ALPHA-CHLOR	AROCLOR-101	AROCLOR-122	AROCLOR-123	AROCLOR-1242	AROCLOR-125	AROCLOR-126	BETA-BHC	DELTA-BHC	DIELDRIN	ENDOSULFAN II	ENDOSULFAN	ENDRIN	ENDRIN ALDEHYDE

aoc c (sample set mod) 3/7/20078:56 AM full appendix results

Column C							,	<u> </u>		2
WITT CO-PUNASS WITT							00000	10000	70000	70007
Maria Carlo Maria Sale Maria Sa								MPT-TC-DPW01SD	MPT-TC-DPW01SD	MPT-TC-DPW02D
Control Cont								MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW02D-01
Colone C		-TC-DPW03S-RS			PW065-KS	PWOSD-KS		MPI-IC-GW-UP-W01D-01	ro-scow-down	MPI-IC-GW-DP-W0ZD-01
Company Comp		¥.						NORMAL		NORMAL
Contract								8666-		6666-
Control Cont								1999130		-8988 19981203
Marie Mari								11/30/99		12/03/99
Marco Marc										
Control Cont		ļ					,			
10 10 10 10 10 10 10 10		- '					, i			HANSEN, I
10 0.005 U								11 30	1 30	Ę
100 100	GAMMA-BHC (LINDANE)							0.600	0 000	2 200
1	GAMMA-CHLORDANE							0.05 U	0.05	0.05 U
1	HEPTACHLOR							0.05 U	0.05 U	N 50'0
10 10 10 10 10 10 10 10	HEPTACHLOR EPOXIDE							0.05 U	0.05 U	U 900
10	ISODRIN							0.1 U	0.024 R	0.10
10	KEPONE							1 U	1 0	O F
1	METHOXYCHLOR							0 LO	0.1 0.7	0.1 UJ
1	SULFOTEPP							1 0	1 0	1 U
1	IOXAPHENE							2 U	2 U	2 U
1	JiganoPhPesticides (ug/L)									
10 10 10 10 10 10 10 10	UME HOATE							1 03	1 W	1 U
10 10 110 110 110 110 110 110 110 110 1	NO CONTRACTOR							1.0	10	חי
1	METHY! DABATHION							0	0:	0:
1	PHORATE									
1	HIONAZIN									
10 10 10 10 10 10 10 10	erbicides (ug/L)									0.1
1	4.5-T							11+		=
10	.4.5-TP (SILVEX)							=======================================		
10	.,4-D							4 11	4 1	2 4
7.56 U 7.	DINOSEB							111 90	06 111	111
1,000, 1	norganics (ug/L)									
22 U 23 U 27 U 27 U 20 U	KLUMINUM							73.6 U	73.6 U	73.6 U
10 10 10 10 10 10 10 10	ANTIMONY							2.6 U	3.2	26 U
10	ARGENIC							2.7 U	27 U	27 U
10	SANIGM SANIGM							2.2 U	30.9 J	2.6 J
1	STATION							0.3 U	0.3 U	03 U
15 to 0	AUMIUM							0.2 U	0.22	0.2 U
16 0 0 0 0 0 0 0 0 0	ALCIOM Nubokum							71600	157000	92100
10	OBAL T							1.8 U	4	1.6 U
11	Opper							0.7 U	0.7 U	0.7 U
170 1710 1	RON							1.1 U	1.1 U	1,1 0
15 U	EAD							30.2 U	1710	23.1 U
1310 1310	AAGNESIUM							D 6.1	1.5 U	1.5 U
15 15 15 15 15 15 15 15	AANGANESE							40000	25,	24400
15 29 29 2860 3880	AERCURY							0.44.11	104	27.5
15 29 29 28600 38800 38800 38800 3890 3890 3890 3890	MOLYBDENUM									
1	IICKEL OTABBUILE							5.	29	14
47 U 47 U 47 U 18 U	CIASSIUM							23600	3880	4330
16 U	I VED							4.7 U	47 U	47 11
1400 150 U 150 U 150 U 150 U 150 150 U 150 U 173	SODILIM							1.6 U	16 U	16 U
13	HALLIUM		. 000					188000	11400	18500
25 U	2		0.60	0.13 0	0.2.0	0.10 0	0.10 U	7.5	7.3	7.1.0
Searameters (mg/L) 4.4 U 6.5 U (pl.)	ANADIUM							25 0	25 U	25 U
1162 28 29	INC							0/3	0.5 0	0.5 U
26 U 29 U	iscellaneous Parameters (mg/L)							0 **	0.5 0	U e.rr
	YANIDE (ug/L)							2811	300	111 00



order	690	070	071	072	073	074	075	076	7.70
aoc	<u>0</u>	<u>U</u>	Ų	U	ပ	ပ	်ပ	<u> </u>	; ; ;
no									1
round	2003Q2	200302	2003Q2	200302	200302	200302	199904	÷	199904
location	MPT-TC-DPW03S	MPT-TC-DPW04S	MPT-TC-DPW06SI	MPT-TC-DPW06SI	MPT-TC-DPW09D	-DPW09I	MPT-TC-DPW01SD	_	MPT-TC-DPW02D
nsample	MPT-TC-DPW03S-RS	MPT-TC-DPW04S-RS	MPT-TC-DPW06I-RS	MPT-TC-DPW06S-RS	MPT-TC-DPW09D-RS	MPT-TC-DPW09I-RS	MPT-TC-GW-DPW01D-01	MPT-TC-GW-DPW01S-01	MPT-TC-GW-DPW02D-01
sample	MPT-TC-DPW03S-RS	MPT-TC-DPW04S-RS	MPT-TC-DPW06I-RS	MPT-TC-DPW06S-RS	MPT-TC-DPW09D-RS		MPT-TC-GW-DPW01D-01	-	MPT-TC-GW-DPM02D-01
matnx	GW	M _O	ΒW	MΘ	ΜĐ		MG.	٠	W.
sacode	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL		NORMAL		NORMAL
top_depth	6666-	6666-	6666-	6666-	6666-	6666-	6866-	5666-	6666-
bottom_dep	6666-	6666-	-9999	6666-	6666-		6666-		6666
gis_date	20030422	20030422	20030422	20030422	20030423		19991130		19991203
sample_dat	04/22/03	04/22/03	04/22/03	04/22/03	04/23/03		11/30/89	_	12/03/89
validated	>	<u>></u>	<u>}</u>	<u> </u>	<u> </u>			_	
cto_proj	0123	0123	0123	0123	0123	0123			
proj manag	HANSEN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN	HANSEN.T	HANSEN.T	HANSEN	HANSEN
sort	690 0	c_070	c 071	c 072	c 073		c 075	c 076	220 9
NITRATE									
NITRITE									
SULFATE									

order	078	620	080	180	082	083	084	085
aoc	<u>u</u>	ပ	U	υ_	υ.	υ_	υ_	υ
punos	199904	1999Q4	199904				1999Q4	1999Q4
tocation	MPT-TC-DPW02D	MPT-TC-DPW03D	MPT-TC-DPW03I		MPT-TC-DPW06SI	MPT-TC-DPW06SI	MPT-TC-DPW09D	MPT-TC-DPW09I
nsample	MPT-TC-GW-DPW02DD-01	MPT-TC-GW-DPW03D-01	MPT-TC-GW-DPW03I-01				MPT-TC-GW-DPW09D-01	MPT-TC-GW-DPW09I-01
sample	MPT-TC-GW-DPW02DD-01	MPT-TC-GW-DPW03D-01	MPT-TC-GW-DPW03I-01	3W-DPW03S-01			MPT-TC-GW-DPW09D-01	MPT-TC-GW-DPW09I-01
	ďΜ	ВW	ВW				ßw	GW
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL.	NORMAL	NORMAL
top_depth	6666-	6666-	6666-	-9999	6666-	6868-	6666-	6666-
bottom dep	6666-	6666-	6666-	6666-	6666-	6666-	6666-	6666-
gis_date	19991203	19991201	19991201	19991201	19991202	19991202	19991202	19991202
sample_dat	12/03/99	12/01/99	12/01/99	12/01/99	12/02/99	12/02/99	12/02/99	12/02/99
validated		_						
cto_proj								
pro manag	HANSEN, T	N.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c_078	c_079	c_080	c_081	c_082	c_083	c_084	c_085
Volatile Organics (ug/L)								
1,1,1,2-TETRACHLOROETHANE	10	10	J U	10	1 U	17.0	10	10
1,1,1-TRICHLOROETHANE	101	1 0	10	1 0	1 0	1.7 U	10	1 0
1.1.2,2-TETRACHLOROETHANE	10	10	10	10	10	1.7 U	10	10
1.1,2-TRICHLOROETHANE	1 U	10	10	10	10	1.7 U	10	10
1.1-DICHLOROETHANE	3.1	1 90 0	3 +	11 +	1 100	17.1	23	0.45
1 1-DICHI OROETHENE	1 780					2	1.2	2 2 2 2
1.2.2.TDCUI OBOODANE						0 :		0.40
12 STRICTION OF CHI ODODOGANIT				0.5	ח	0 /1	0 -	0.
L'S-DIBONGMO-S-CHONDING	0 -	1.0	0.1	1.0	D -	1.7 U	10	1.0
1.2-DIBROMOETHANE	J .	J U	□	J C	-	1.7 U	10	1.0
1,2-DICHLOROETHANE	1 0	10	10	10	10	17.0	0.081	
12-DICHLOROPROPANE	11 1		= +	= +		144		2 =
2.PLITANONE	107	2	- 4					
2 CHI ODOETHY WAY ETHED	9	0.2	000	0	0 !!	0 2	0 01	0
2 CANDAIN WILLIAM	25	אס	אס ו	אַ פ	י חא	AU / L	٦ <u>- ۲</u>	1 UK
2-nexanone	n ot	10 U	10 U	10 U	10 U	17 U	10 U	10 U
3-CHLOROPROPENE	1 0	1 0	1 U	1 0	1 U	U 7.1	10	10
4-METHYL-2-PENTANONE	10 U	10 U	10 U	U 01	10 U	U 71	10 U	10 U
ACETONE	10 U	U 01	10 U	10 U	10 U	23 U	10 U	10 U
ACETONITRILE	20 UR	20 UR	20 UR	20 UR	20 UR	33 UR	20 UR	20 LIR
ACROLEIN	10 UR	10 UR	10 UR	10 UR	10 UR	17 J.R	40 LIR	40 IIB
ACRYLONITRILE	10 U	10 (1	10 11	10 11	10 1	11 44	17 04	100
BENZENE	11 +	= +	= -	2 -	-		-	2
BROMODICH! OROMETHANE			7	2 - 7		0 /1		
BROMOFORM	0					0 / 1	0	1 0
DECAMONATION OF	0		1.0	0.1	1 0	1.7 U	O.	1 U
ON DOOR DIE IL FIRE	2 U	2 U	2 U	2 U	2 U	3.3 U	2 U	2 U
CARBON DISULFIDE	1 U	1 0	1.0	1 0	1 0	0.41	10	1 0
CARBON TETRACHLORIDE	1 0	1 U	J L	10	1 0	1.7 U	2 -	0,1
CHLOROBENZENE	1.0	10	10	10	0 -	17.0	7.0	11 1
CHLORODIBROMOMETHANE	10	10	10	10	10	17.11		+ ==
CHLOROETHANE	10	J C	10	10	10	17 11	=	-
CHLOROFORM	10	100	= +	= +	-	17.11		
CHLOROMETHANE	10		-			24		
CHLOROPRENE	-+	-						חר
CIS-12-DICHLOROFTHENE	0.24	300		0		0 / 1	1 0	1.0
CIS-1 3-DICHI OROPRODENE	7.7	4.3	-	0.50	0.5 0	0.83 U	2.9	33
DIRROMOMETHANE					1 0	1.7 U	1 U	1 0
		0.1	י ר	1.0	10	1.7 U	1 C	n l
TIN METHODICACINE	n c	- 00	1 00	1 00	3.	1.7 UJ	30 -	101
EINTLINE INACKTUALE	1.0	1 0	1.0	1 U	1 0	1.7 U	0,1	
EINTENEN	1 U	10	10	1 0	10	17.0	= -	=
ISOBO! ANOL	50 UR	50 UR	So UR	50 UR	So UR	R3 11R	81 US	91 09
METHACRYLONITRILE	1 0.7	3	1111	==+		4.7 111	55.55	אס פר
METHANE				3	3	20.7.	בים ב	3
METHYL IODIDE	11 +							
METHY! METHACRY! ATE		2	חר	1 U	1 0	1.7 U	10	10
METUNI TEDT DITAL CTUCO	20	3	1 03	1 0.1	3	17 UJ	31	1 (1)
MEINIT IEKI-BUITLEIMEK								3
METHYLENE CHLORIDE	1 U	1 U	n .	10	10	17 11	4.11	
PROPIONITALE	4 UR	4 UR	4 UR	4 UR	4 UR	AR IIR	01. 8	9
STAKENE	J C	10	1 0	1.0	-	47.11		KO *
TETRACHLOROETHENE	10	10	10	-	7	2,7,7	0 -	10
TOLUENE	0 -	7	1=+	=		17.0	2	4.5
			2	_	0 1	0 / L	J U	1 U



from wed_sam.dbf from wed_res.dbf from wed_res.xls from q:\sq_seryer*mayport\uppl

Control Cont	078 C 198904	079 C	080 C 1999QA	C 190004	082 C 100007	083 C 190004	084 C 199904	C C C C C C C C C C C C C C C C C C C
100 100	MPT-TC-DPW02D MPT-TC-GW-DPW02DD-01 MPT-TC-GW-DPW02DD-01 GW NORMAL			J. SERVICA MPT-TC-DPW03S MPT-TC-GW-DPW03S-01 MPT-TC-GW-DPW03S-01 GW NORMAL	1959C4 MPT-TC-DPW06S1 MPT-TC-GW-DPW06I-01 MPT-TC-GW-DPW06I-01 GW NORMAL	1959C4 MPT-TC-DPW06S1 MPT-TC-GW-DPW06S-01 MPT-TC-GW-DPW06S-01 GW NORMAL	139944 MPT-TC-DPW09D MPT-TC-GW-DPW09D-01 MPT-TC-GW-DPW09D-01 GW NORMAL	TBBBC4 MPT-TC-DPW08I MPT-TC-GW-DPW08I-01 MPT-TC-GW-DPW09I-01 GW NORMAL
Marie Mari	-9999 -9999 19991203	202		-9999 -9999 19991201	-9899 -8899 19991202	-9999 -9999 19991202	-9999 -9999 19991202	-9999 -9999 19991202
MANIESTAT MANI	86.6071	86/LO/7L	12/01/98	12/10/21	12/02/89	12/02/99	12/02/98	12/02/99
1	HANSEN,T	EN,T	T,N	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
1		3	1.1	ı	┞	1		ı
1	U L	1.0	10	1 0	1 0	1.7 U	1 U	10
1	0.5 0	0.12 J	0.07	0.5 U	0.5 U	0.83 U	0.11 J	1.2
10 10 10 10 10 10 10 10	2	-				14.1		0 =
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	027 J	0.078	0.3.1	015	0 =	17.1	13	0.5
100 100	2 U	2 U	2 0	2.0	2 0	33 []	2.11	2 6
10	1 0	1 0	1 U	1 U	10	1.7 U	7 0	10
10 10 10 10 10 10 10 10	1 0	1 0	1 0	1.0	1 0	1.7 U	1 0	0.27 J
10 10 10 10 10 10 10 10								
10 10 10 10 10 10 10 10	0 0	10 U	10 U	10 U	10 U	10 U	10 U	10 U
10	2 5	0.00	0.01	70.0	10 U	10 U	10 U	10 U
10 10 10 10 10 10 10 10	2 5	200	10 0	0 2 5	0.00	10 U	10 U	10 U
10.0	10 01	200	200		000	0.00	10 0	10 C
10 10 10 10 10 10 10 10	10 11	10 11	- 01			000	0 0	0.01
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	10 U	10 U	10 O	200	200		9	0 0
10 10 10 10 10 10 10 10	10 U	10 U	10 U	10 U	10 U	10 0	200	2 9 9
10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 n
10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U	10 U
10.0	100	0 0 0	10 0	10 0	10 U	10 U	10 U	10 U
10	10 11	2 5	200	0 0	0.00	0 01	10 0	10 U
10.0	10 U	200	200		0 0	0.00	10 0	10 O
10 U	10 U	10 O	10 1	200			10.0	0 00
25 LIR 25 LIR 10 LIR<	10 U	10 U	10 U	10 1	200		100	2 5
10 U 10 U <th< td=""><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 11</td><td>= 0+</td><td>200</td></th<>	10 U	10 U	10 U	10 U	10 U	10 11	= 0+	200
10 U 10 U <th< td=""><td>25 UR</td><td>25 U</td><td>25 U</td><td>25 U</td><td>25 ∪</td><td>25 U</td><td>25 U</td><td>25 ()</td></th<>	25 UR	25 U	25 U	25 U	25 ∪	25 U	25 U	25 ()
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10 U 10 U <th< td=""><td>0.00</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	0.00	10 U	10 U	10 U	10 U	10 U	10 U	10 U
10 U 10 U <th< td=""><td>200</td><td>0 0 0</td><td>10 0</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	200	0 0 0	10 0	10 U	10 U	10 U	10 U	10 U
10 U 10 U <th< td=""><td></td><td>0 0</td><td>0 :</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 Ú</td><td>10 U</td></th<>		0 0	0 :	10 U	10 U	10 U	10 Ú	10 U
10 U 10 U <th< td=""><td>2007</td><td></td><td>0 0</td><td>10 0</td><td>10 U</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	2007		0 0	10 0	10 U	10 U	10 U	10 U
10 10 10 10 10 10 10 10	10 U	2 5	2 5	0.00	0 00	10 U	10 U	10 U
25 U 25 U <th< td=""><td>10 1</td><td>1 00</td><td>2 5</td><td>000</td><td>0.01</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	10 1	1 00	2 5	000	0.01	10 U	10 U	10 U
10 U 10 U <th< td=""><td>25 U</td><td>25.11</td><td>0 22</td><td>0 20</td><td>0.00</td><td>J0 D</td><td>10 U</td><td>10 U</td></th<>	25 U	25.11	0 22	0 20	0.00	J0 D	10 U	10 U
10 U 10 U <th< td=""><td>10 U</td><td>101</td><td>1000</td><td>750 0</td><td>0 67</td><td>25 U</td><td>25 U</td><td>25 U</td></th<>	10 U	101	1000	750 0	0 67	25 U	25 U	25 U
10 U 10 U <th< td=""><td>10 11</td><td>10 11</td><td>2</td><td>0 :</td><td>0.00</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	10 11	10 11	2	0 :	0.00	10 U	10 U	10 U
10 UJ 10 UJ <th< td=""><td>10 U</td><td>10 11</td><td>220</td><td>0 0</td><td>ם:</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	10 U	10 11	220	0 0	ם:	10 U	10 U	10 U
10 U 10 U <th< td=""><td>10 UJ</td><td>10 11</td><td>224</td><td>2</td><td>חמנ</td><td>10 U</td><td>10 U</td><td>-10 U</td></th<>	10 UJ	10 11	224	2	חמנ	10 U	10 U	-10 U
10 U 10 U <th< td=""><td>10 U</td><td>10 17</td><td>22.0</td><td>0 = 0</td><td>O OL</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	10 U	10 17	22.0	0 = 0	O OL	10 U	10 U	10 U
25 U	10 U	10.00	225	0 01	U OL	10 U	10 U	10 U
25 U 20 U 10 U <th< td=""><td>25 11</td><td>25.5</td><td>0.01</td><td>0 20</td><td>10 0</td><td>10 U</td><td>10 U</td><td>10 U</td></th<>	25 11	25.5	0.01	0 20	10 0	10 U	10 U	10 U
10 U 10 U <th< td=""><td>25 11</td><td>25.25</td><td>0 67</td><td>25 U</td><td>25 U</td><td>25 U</td><td>25 U</td><td>25 U</td></th<>	25 11	25.25	0 67	25 U	25 U	25 U	25 U	25 U
10 10 10 10 10 10 10 10 10 10 10 10 10 1	1 0	0.00	0 07	25 U	25 U	25 U	25 U	25 U
10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 11		10.0	0:00	10 U	10 U	10 U	10 U
10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 0	10 11		2	0.01	- O	10 01	10 U
	10 U	10 17	100	2 2 4	0.00	10 U	10 U	10 U

order aoc	078 C	079 C	080	081 C	082 C	083 C	780 O	085 C
no	1999Q4	1999Q4			1999Q4	1999Q4	1999Q4	1998Q4
location insample	MPT-TC-DPW02D MPT-TC-GW-DPW02DD-01	MPT-TC-DPW03D MPT-TC-GW-DPW03D-01		MPT-TC-DPW03S MPT-TC-GW-DPW03S-01	MPT-TC-DPW06SI	MPT-TC-DPW06SI MPT-TC-GW-DPW06S-01	MPT-TC-DPW09D MPT-TC-GW-DPW09D-01	MPT-TC-DPW09I
sample	MPT-TC-GW-DPW02DD-01	MPT-TC-GW-DPW03D-01	3W-DPW03I-01		MPT-TC-GW-DPW06I-01 GW	MPT-TC-GW-DPW06S-01 GW	MPT-TC-GW-DPW09D-01 GW	MPT-TC-GW-DPW09I-01 GW
sacode	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
top_depth bottom_dep	6666-	6666-	6666-	6666-	6666-	6666-	6666-	6666-
gis_date sample_dat	19991203 12/03/99	19991201 12/01/99	19991201 12/01/99	19991201 12/01/99	19991202 12/02/99	19981202 12/02/99	12/02/99	12/02/99
validated cto_proj								
proj manag	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T	C 084	HANSEN,T
4-CHLOROPHENYL PHENYL ETHER	10 U	10 U	0.0	10 U	0 0	10 U		10 U
4-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-NITROGUINOLINE-1-OXIDE	10 UK	30 UK	5 5 E	¥ = 5	YO 07	10 OF	10 OF	5 C
7.12-DIMETHYLBENZIAJANTHRACENE	200	200	10 U	0.0	10 0	0 01	10 U	10 U
A.A.DIMETHYLPHENETHYLAMINE	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
ACENAPHTHENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	-10 C
ACETOPHENONE	10 U	10 U	10 U	10 U	10 0	10 C	10 C	9 9
ANILINE	0 0 0	10 0	10 0	0.00	0 00	0.00	10.00	0 0 0
ANITRACENE		200	000			92	5 5	200
BENZO(A)ANTHRACENE	7 00	200	20.02	000	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	10 U	10 U	U 0t	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	10 U	10 U	10 U	10 U	J 01	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	10 U	10 0	10 0	10 U	10 U	10 D	19 C	10 0
BEIXZ CHI OROFTHOXYMETHANE	0 5	200	0.00		200	0 0		
BIS(2-CHLOROETHYL)ETHER	10 0	200	10 0	10 U	10 C	0 OF	10 D	10 0
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	5.0	5 U	5.0	5 U	5 U	5.0	5.8 U
BUTYL BENZYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZILATE	10 UJ	10 M	10 07	OD QI	10 UJ	10 03	10 CT	10 0.5
DI-N-BUTYL PHTHALATE	200	200	70.0	10.0	2 0	200	200	2 2
DI-N-OCTYL PHTHALATE	10 U	10 U	10 U	10 UR	10 U	10 U	J 01	10 U
DIALLATE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
DIBENZOELIDAN	0 01	0.00	0 01	10 0	0 0	0 :	0 00	10 0
DIETHYL PHTHALATE	000	202		2 2	2 5	200	0 0	0 0
DIMETHYL PHTHALATE	10 UR	10 UR	10 UR	10 U	10 UR	10 UR	10 UR	10 UR
DINOSEB								
ETHYL METHANE SIN FONATE	10 0	0 00	10 0	10 0	10 0	10 0	10 0	10 0
ETHYL PARATHION	22-	2	2 -	2 -	2 -	2 -	0 0.	0 -
FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
FLUORENE	10 U	10 U	10 U	10 U	10 U	J 01	10 U	10 U
HEXACHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
HEXACHLOROGOLADIENE HEXACHLOROCYCLOBENTADIENE	10 0	10 0	10 U	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	10 OF	30 OF	10 UR	10 UR	10 UR	10 UR	10 UR	10 UR
HEXACHLOROPROPENE	10 U	10 17	200			0 0	0 9	0 00
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	10 U	10 C	2 0	0 0	200
ISOBRIN								
ISOSAFROLE	0 0 0	10 0	10 0	10 U	10 U	10 C	10 U	10 OL
METHAPYRILENE	10 U	200	100		2 5	10.0	10 0	10 0
			?	,	2 2	2	2	0 2



199904 MPT-TC-G2DD-01	SW-DPW03D-01 SW-DPW03D-01 SW-DPW03D-01 T	199904 MPT-TC-DPW03I MPT-TC-GW-DPW03I-01 MPT-TC-GW-DPW03I-01 MORMAL -9999 -999	1999Q4 MPT-TC-DPW03S.01 MPT-TC-GW-DPW03S-01 GW GW GW GW GW HORMAL 9999 9999 19999 19999 19091201 12/01/69 0.05 U	1999Q4 MPT-TC-DPW06S1 MPT-TC-GW-DPW08I-01 MPT-TC-GW-DPW06I-01 GW MPT-TC-GW-DPW06I-01 MPT-TC-GW-DPW06I-01 MPT-TC-GW-DPW06I-01 1999 1999 1991202	1999Q4 MPT-TC-DPW06SI MPT-TC-GW-DPW06S-01 MPT-TC-GW-DPW06S-01 GW-	1999Q4 MPT-TC-DPW09D MPT-TC-GW-DPW09D-01 MPT-TC-GW-DPW09D-01	1999Q4 MPT-TC-DPW09I MPT-TC-GW-DPW09I-01
MPT-TC-GW-DPW02DD-01 WPT-TC-GW-DPW02DD-01 GW	SW-DPW03D-01 SW-DPW03D-01 SW-DPW03D-01 COS UJ COS U			THENCH WITH TO CONTROL OF THE WITH THE WIT	ISSUCA MPT-TC-GW-DPW06S:01 MPT-TC-GW-DPW06S-01 MPT-TC-GW-DPW06S-01 GW	MPT-TC-DPW09D MPT-TC-GW-DPW09D-01 MPT-TC-GW-DPW09D-01	MPT-TC-DPW09I MPT-TC-GW-DPW09I-01
MPT-TC-GW-DPW02DD-01 MPT-TC-GW-DPW02DD-01 GW NORMAL 9999 19991 1209 1200 1005 U 005 U 005 U 005 U 005 U 005 U 005 U 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3W-DPW03D-01 3W-DPW03D-01 1			MPT-TC-GW-DPW06I-01 MPT-TC-GW-DPW06I-01 MDRMAL -9999 -9999 19991202 12/02/99	MPT-TC-GW-DPW06S-01 MPT-TC-GW-DPW06S-01 GW	MPT-TC-GW-DPW09D-01 MPT-TC-GW-DPW09D-01	MPT-TC-GW-DPW09I-01
MAT-T-C-GW-DPW02DD-01 GW NORMAL 9999 19991203 120399 120399 120399 120399 12030 005 U 005 U 005 U 005 U 005 U 005 U 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U U U U U U U U U U U U U U U U U U U			MP1-1C-4-W-DP-W061-01 GW NORMAL -9899 19991202 12002/99	MPI-1C-GW-UPW085-01 GW	MPI-IC-CAP-DEWGD-01	AADT TO CIA DOMANDO OF
MÜCRMAL 9999 9999 9999 9999 9999 9999 9999	1005 UJ 1006 UJ 1006 UJ 1006 UJ 1006 UJ 100 UJ 100 UJ 110 UJ 1	5.5 W	AL 501 501 501 501 501 501 501 501 501 501	NORMAL -9899 -9999 19891202 12/02/99	1411111	σw	MS GW
9999 9999 19999 19999 19991 120399 1201699 1201699 1201699 120169 1005 U 005 U 005 U 005 U 005 U 001 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	005 UJ 0076 J 0076 J 008 UJ 008 UJ 008 UJ 008 UJ 008 UJ 100 110 110 110 110 110 110 11	8 5 W 8 5 U 8 8 U W W W W U U U U U U U U U U U U U	201 205 UJ 205 U 205 U 205 U 205 U 206 U 206 U 2004 R 1 U 1 U 2 U	-9999 19991202 12/02/99	NOKWAL	NORMAL -8999	NORMAL -9999
120399 1204199 1204199 1204199 1204199 120410 120410 11041110 11041110 11041110 1104110 1104110 1104110 110410 110410 110410 110410 110410 110410 110410 1110	065 W 067 R 067 R 067 B 010 U 1 U 1 U 2 U 2 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	86 W W W W W W W W W W W W W W W W W W W	20.1 20.5 UJ 20.5 U 20.5 U 20.5 U 20.5 U 20.5 U 1 UJ 1 UJ 2 U	12/02/98	6666-	6668-	9999
HANSEN,T HANSEN,T C 079	1055 UJ 1076 J 1077 R 107 R 107 UJ 107 UJ 10	8 8 W W W W W W W W W W W W W W W W W W	EN.T 0.05 UJ 0.05 U 0.05 U 0.05 U 0.05 U 0.006 N 1 UJ 1 UJ 2 U 2 U		12/02/99	12/02/99	12/02/99
HANSEN,T C OTB C OTB C OTB C OTB C OTS	005 W 007 N 007 N 007 N 007 N 1 U 1 U 2 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	5 5 W S C C C C C C C C C C C C C C C C C C	0.05 UJ 0.05 U 0.05 U 0.05 U 0.005 U 0.005 R 1 UJ 1 U 2 U				
6 078	1055 UJ 1076 J 1077 N 107 N 107 UJ 107 UJ 10	8 60 B B U B U	0.05 UJ 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.0064 R 1 UJ 1 UJ 2 U 2 U	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
005 U 005 U 005 U 005 U 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U		5 tu 25 tu 25 tu 25 tu 25 tu 20 tu 10 tu 10 tu 10 tu 10 tu 10 tu		c_082	c 083	c_084	c 085
2 005 U 005 U 005 U 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 1 U 0.1 U 1 U 2 U 1 U 1 U 1 U 1 U	0.005 U 0.005 U 0.005 U 0.005 U 0.0064 R 1.00 0.1 UJ 1.0	0.05 UJ	0.05 UJ	0.05 U	0.05 U
005 U 005 U 006 U 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	0087 R 0087 R 005 UJ 1 UJ 01 UJ 2 UJ 1 U 1 U 1 U 1 U 1 U	0.05 U 0.05 U 0.05 U 0.05 U 1.00 1.00 2.0 2.0 1.00 1.00 1.00 1.00 1	0.05 U 0.05 U 0.05 U 1.00 0.1 UJ 1 U 2 U	0.05 UU	0.052 R	0.0081	0.00
005 0 005 0 01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	2 m 1 m 1 m 2 m 2 m 1 m 1 m 1 m 1 n 1 n 1 n	2 U 2 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	0.005 U 0.0064 R 1 UU 0.1 UU 1 U 2 U	0.05 0.0	0.03 W	0 00 U	0.000
01 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	2 m 2 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	0.009 R 1 UU 2 U 1 U 1 U 1 U	0.0064 R 1 UJ 0.1 UJ 2 U 1 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U
110 110 110 110 110 110 110 110	2 EU 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1.0 2.0 2.0 1.0 1.0 1.0	1 W 01 W 1 U 2 U	0.1 U	0.1 UJ	0.1 U	0.1 U
01 UU 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	2 UU U U U U U U U U U U U U U U U U U	2 U 2 U 1 U 1 U 1 U	0.1 UJ 1 U 2 U 1 UJ	1 0.2	1 0.0	1 U	1.0
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	10 10 10 10 10	2 C C C C C C C C C C C C C C C C C C C	2 U U L	0.1 UJ	0.1 UJ	0.1 U	0.1 U
2 U 1 U 1 U 1 U 1 U 1 U 1 U 4 U 6 U 1 D 6 U 1 D 6 U 1 SE	2 m 1 1 m 1 1 n 1 1 n	1 m	2 U	10	0 -	0.	
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	30000	U - 1	1 W	2 03	7 00	2.0	7
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	30000	3 2 5	3	1111	1111	1111	1 11
1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U			=	3 -	30-	10	7
1 U 1 U 1 U 1 U 1 U 4 U 2 E U 2 E U 2 E U 2 E U 9 2 J 52.7 J 63.0 U 18000 1 E U 1 S2.7 J 1	1 n n		2 -	7	10	10	10
1 U 1 U 1 U 1 U 1 U 4 U 4 U 4 U 6.6 UJ 6.6 UJ 6.7 U 1.8000 U 1.6 U 1.8000 U 1.1 U 1.	0.0		1 0	0 1	10	10	10
1 U 1 U 1 U 1 U 1 U 4 U 0.6 UJ 136 U 28 U 92 J 627 J 627 J 03 U 02 U 199000 16 U 07 U 1.1	0.1	10	10	10	10	10	1 0
1 U 1 U 4 U 4 U 6 UJ 736 U 92 U 92 J 527 J 527 J 92 U 199000 15 U 11 U 11 U 13 U 13 U 13 U 14 U 15 U 15 U 16 U 17 U 18 U		1 0	1 U	1 0	1 0	1 0	1 U
1 U 1 U 4 U 4 U 4 U 4 U 6 UJ 6 UJ 736 U 26 UJ 92 J 9							
736 U 66 UJ 736 U 26 U 26 U 27 J 63 U 63 U 18000 16 U 11 U 11 U 13 U 13 U 13 U 16 U 3540 15 U 15 U 17 U 18 U 18 U 19 U 11	0:		0				
0.6 UL 73.6 U 2.8 U 2.8 U 9.2 J 9.2 J 9.2 J 189000 11 U 11 U 15 U 15 U 15 U 15 U 15 U 11 U 11 U 11 U 13 U 14 U 15 U 15 U 16 U 17 U 18 U 1		2 = 4	0 - 4	- 4	2 4	0.4	2 4
73.6 U 2.6 U 2.6 U 2.7 J 52.7 J 52.7 J 63.0 U 02.0 U 158000 16.0 U 07.0 U 11.0 U 13.0 U 13.0 U 13.0 U 14.0 U 15.0 U	0.6 UJ	0.6 UJ	0.6 UJ	0.6 UJ	0.6 UU	U 9'0	U 9'0
736 U 26 U 92 J 92 J 627 J 03 U 02 U 189000 16 U 07 U 11 U 11 U 13 U 13 U 13 U 14 U 15 U 15 U 17 U 11							
2 8 U 9 2 J 5 2 J 5 2 7 J 6 3 U 18000 1 6 U 1 1 U 1 0 U	187	73.6 U	73.6 U	73.6 U	73.6 U	73.6 U	736 U
22.7 J 63.1 J 63.0 C 18000 1600 17 U 11 U 13 U 13 U 13 U 15 U 14 U 15 U 16 U 16 U 17 U 18 U	2.6 U	2.6 U	2.6 U	2.8 U	2.6 U	2.6 U	26 0
03.0 03.0 188000 16.0 07.0 07.0 11.0 3540 3540 15.0 15.0 11.0 13.0 13.0 14.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	27 U	2.7 U	2.7 U	2.7 U	27.0	2.7 U	36 1
189000 1180000 116 U 07 U 111 U 3340 15 U 15 U 111 U 113 U 119000 116 U 47 U 47 U 47 U 16 U 349000	100	2 60	0.00	0.3 11	03.0	03.0	030
199000 16 U 07 U 11 U 11 U 3540 3540 3540 15 U 191 011 U 13 U 19000 19000 19000 19000 19000 19000 19000 19000	02 0	02 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
16 U 07 U 17 U 11 U 15 U 3/6000 3/6000 13 U 13 U 13 U 14 U 16 U 47 U 16 U 3/9000 3/9000	42900	75900	128000	66800	87600	34500	98600
11 U 11 U 11 U 3540 376000 191 U 113 U 113 U 113 U 115 U 115 U 116 U 3490000 107 U	16 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
3540 3540 15 U 376000 191 0.11 U 13 U 188000 47 U 47 U 16 U 3490000	0.7.0	0.7 U	0.7 U	0.7.0	0.7 U	0.7 U	0.7 0
15 U 376000 376000 111 U 13 U 188000 47 U 47 U 16 U 3490000 101 U	973	57.1 U	346	87.8 U	315	410	32 U
376000 191 011 U 13 U 186000 47 U 47 U 16 U 16 U 107	15 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
13 U 13 U 19800 19800 47 U 16 U 349000 107	74100	26700	21600	54300	23200	38100	30800
13.0 13.0 18000 18000 47.0 16.0 349000 10.1	27	55	121	20.1	147	31.6	31.7
13 U 198000 47 U 15 U 3490000	0.11.0	0.11.0	0.11.0	0.11 0	0.11.0	0.11.0	0.11 U
198000 4.7 U 4.7 U 16 U 3490000	13.5	13.11	13.11	18	3.4	17	13.11
4.7 U 116 U 3490000 10.7	80800	6420	4170	16100	4710	42900	4570
116 U 3480000 107	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
3490000 M	16 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
2.01	1050000	18500	15300	24200	16100	283000	26900
- 4c	0 1.7	7.1 U	7.1 0	7.1 U	7.1 0	7.1 U	7.1 U
WINDAMAN MANAGEMENT OF 11	05 11	0.59	0.50	2.5 U	25 U	25 0	2.5 U
92.0	17.6 U	12 U	4 0	50.2	16.2 U	13.4 U	8.2 U
CYANIDE (ug/L) 4 U	4 U	2.2 UJ	2.2 UJ	0 ¥	4.0	4 0	3 U



order	078	620	080	180	082	กลา	DBA	Ago
aoc	O	U	0		ا	} .	3	200
no			<u>-</u>	<u> </u>		2_	<u>.</u>)
round	1999Q4	1999Q4	199904	199904	199904	199904	188904	100001
location	MPT-TC-DPW02D	MPT-TC-DPW03D	MPT-TC-DPW03I	MPT-TC-DPW03S	MOTTO			TOTAL TO STAND
nsample	MPT-TC-GW-DPW02DD-01	_	MPT-TC-GW-DPW03I-01	MPT-TC-GW-DPAM9S-01	MPT-TC-GW/DDAM61.04	AND TO CIA DRAMES OF		MPI-IC-DPWGI
sample	MPT-TC-GW-DPW02DD-01	MPT-TC-GW-DPW03D-01	MPT-TC-GW-DPW03I-01	MPT-TC-GW-DPM03C01	MPT-TC-GW/DPA/061-04		MPT-1C-CW-LP-WOBL-01	MPI-IC-GW-UPWOSI-01
matrix	BW.		W.S.		0.00			MPI-16-6W-DI-WORL-01
sacode	NORMAL		NORMAI		NO DEVE			GW.
top_depth	6666-		6066		SOOO SOOO			NOKWAL
bottom_dep	6666-	6666-	6666-	- 6666	5665	0000	6666-	5666-
gis_date	19991203		19891201		10001202			RARA-
sample_dat	12/03/99		12/01/99		420000			20218861
validated					867071			BS/ZD/ZL
cto_proj	-		_			_		
pro manag	HANSEN,T	HANSEN.T	HANSEN	HANSEN T	HANSEN T	HANSENT	TABLE	1
sort	c_078]			HANSEN, I	TANSEN, I
NITRATE							100	c ngo
NITRITE								
SULFATE								

aoc c (sample set mod) 3/7/20078:56 AM full appendix results

order aoc	980	087 C	088 C	880 0	060 0	091 C	092 C	083 OIL WASTE COLL SYS
ou location	1999Q4 MPT-TC-DPW04S	1999Q4 MPT-TC-DPW03DD	1999Q4 MPT-TC-DPW03DD	1999Q4 MPT-TC-DPW03DD	1999Q4 MPT-TC-DPW07D	1999Q4 MPT-TC-DPW07D		2000Q3 MPT-47-DPW04S
nsample sample matrix	MPT-TC-GW-MW04S-01 GW	MPT-TC-GW-DPW03DD-01 GW	MPT-TC-GWDPW03DD-01-AVG MPT-TC-GWDPW03DD-01-AVG GW	MPT-TC-GW-DU01 MPT-TC-GW-DU01 GW	MPT-TC-GW-DPW07D-01 MPT-TC-GW-DPW07D-01 GW	MPT-TC-GWDPW0/D-01-AVG MPT-TC-GWDPW07D-01-AVG GW	MPT-TC-GW-DU02 MPT-TC-GW-DU02 GW	MPT-64-6W-38-04 MPT-64-GW-38-04 GW
sacode top_depth bottom_dep	NORMAL -9999 -9999		AVG -9999 -9989	9999 -9999 -9899	9999 -9999	AVG -9989 -8999	-9999 -9999	NORMAL -9999 -9999
gis_date sample_dat	. 19991203 12/03/99	19991201 12/01/99	19991201 12/01/99	19991201 12/01/99	19991206 12/06/99	19991206 12/06/99	19991206 12/06/99	20000707 07/07/00
cto_proj proj manag	HANSEN.T	HANSENT	F. 2.	HANSEN		HANSEN T		O123 HANSEN T
sort Volatile Organics (not)	980_2	c_087		680~	c_080	c_091	c_092	c_083
1,1,1,2-TETRACHLOROETHANE	1 0	10	10	10	10	1.0	10	1 U
1,1,1-TRICHLOROETHANE	10	1 U	J L	O t	10	1 U	1 0	1.0
1,1,2,2-1ETRACHLOROETHANE	2 -	0 =	0 -	0	J :	D :	10	10
1,1-DICHLOROETHANE	0 0	0 1 P	0 1 0	0 1	0 8	10	10	2 -
1,1-DICHLOROETHENE	10	1 U	1 0	10	7.8 J	6.7 9	5.6 J	0.17 J
1.2.3-TRICHLOROPROPANE	10	J :	1 0	1.0	10	1.0	1.0	1 U
1.2-DIBROMOETHANE			100	7	7) - - -	-	2
1,2-DICHLOROETHANE	0,1	100	2 7		0.27 J	0.72	017.1	
1,2-DICHLOROPROPANE	J U	1.0	1.0	1 Ū	1 0	1 0	1.0	חר
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	1 UK	1 UR	1 UR	1 UR	TO L	1 UR	1 UR	U t
3-CHLOROPROPENE	10	2-	2 -		2 -	0 2 7	0 -	0.01
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 O
ACETONITBIE	10 U	9.0	7.5 U	10 U	10 U	10 U	10 U	10 U
ACROLEIN	20 UK	20 UR	20 UR	20 CR	20 UR	20 UR	20 UR	20 UR
ACRYLONITRILE	10 U	JO 01	J 01	10 0	20 OF	10 05	10 Ot	10 OF
BENZENE	1.0	1 0	1 0	10	1 O	1 0	100	20+
BROMODICHLOROMETHANE	10	1 U	1 0	1 U	1 0	1.0	1.0	1.0
BROMOMETHANE	2 10	10	0 =	0 - 0	J .	10	1 0	1 0
CARBON DISULFIDE	101	100	0 2 -	1111	7 7	2 0	2 0	2 0
CARBON TETRACHLORIDE	10	10	10	2 -	0 -	0 =		
CHLOROBENZENE	10	1.0	0.086 J	0.086 J	1 0	J U	1 0	1 0
CHLOROETHANE		0 -	0 :	D -	J L	1 0	1 0	1 0
CHLOROFORM	10	10	2 7	5 2				
CHLOROMETHANE	1 0	n t	1.0	J L	1.0	1 0	10	חר
CIS-12-DICHLOROETHENE	1 0	7	1.0	D .	10	1 0	1 0	1 0
CIS-1,3-DICHLOROPROPENE	10,	2,5	1.0	7	1.40	0.32 J	0.3 J	0.5 U
DIBROMOMETHANE	10	1 0	J U	1 0	10	10	20-	חר
ETHY! METHACRY: ATE	7	1 00	1 0.0	1 0.3	1 0.0	1 0.7	1 0.3	10
ETHYLBENZENE				0 :		0.	D :	10
ISOBUTANOL	50 UR	So UR	50 UR	50 UR	20.05	O L	O L	0 0
METHACRYLONITRILE	1 07	1 W	1 0.0	1 0.0	1 00	1 00	3.	1 U
METHYL IODIDE	-	= -						
METHYL METHACRYLATE	1 00	1 U				0+	חר	J .
METHYL TERT-BUTYL ETHER				3	3	5		0 - 2
PROPIONITRI F	7	10	1.0	1.0	10	1.0	1 0	ם ב
STYRENE	4	4 UR	4 UR	4 UR	4 UR	4 UR	4 UR	4 U
TETRACHLOROETHENE	0.83 J	10,	0 0			0 =	3	ח
TOLUENE	1 0	1 0	1 U	10	2 -	0 +	2 = 2	
							<u> </u>	

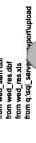




order	980	087	088	680	060	1001	000	000
no	<u>. </u>	<u>ن</u>	<u>ن</u>	ပ	<u>υ</u>	U	lo	OIL WASTE COLL SYS
round	1999Q4	1999Q4	1999Q4	1999Q4	199904	198904	700007	
oceanole	MPT-TC-DPW04S	MPT-TC-DPW03DD	MPT-TC-DPW03DD	MPT-TC-DPW03DD	MPT-TC-DPW07D	MPT-TC-DPW07D	MOT TO DIRECTO	200003
Plames	MPT-IC-GW-MW04S-01	MPT-TC-GWDPW03DD-01	MPT-TC-GWDPW03DD-01-AVG	MPT-TC-GWDPW03DD-01-D	MPT-TC-GWDPW07D-01	MPT-TC-GWDPW07D-01-AVG	MPT-TC-GWDDAM7D-04-D	MP (-47-DPWAS
matnx	GW GW	MPI-IC-GW-DPWG3DD-01	MPT-TC-GWDPW03DD-01-AVG	MPT-TC-GW-DU01	MPT-TC-GW-DPW07D-01	MPT-TC-GWDPW07D-01-AVG	MPT-TC-GW-DU02	MPT-G4-GW-39-04
sacode	NORMAL	ana	AVG	AS C	No.	GW		GW
bottom dep	6666-	6666-	6666-	6666-	6666-	5668-		NORMAL
gis date	19091703	-9999	6666-	-9999	6666-	6886-	6886-	8888-
sample_dat	12/03/99	12/01/99	12/01/99	19991201	19991206	19991206	506	20000707
validated					860071	12/06/99		00/10/00
cic proj	+ 1100141	1	·					200
sort	C 086	HANSEN, T	HANSEN.T	HANSEN,T	EN,T	HANSEN,T	HANSEN	HANSEN
TOTAL 1.2-DICHLOROETHENE	0.14		- 1	c 089		c_091		093
TOTAL XYLENES		3.2 J	2.6 J	2 J	0.34 J	0.32 J	0.3 J	1 +
TRANS-1,2-DICHLOROETHENE		2,10		1 0	1.0	n r	7	
TRANS-1,3-DICHLOROPROPENE			C CHOOLO	0.079	0.5 U	0.5 U	0.5 U	0.5 11
TRANS-1,4-DICHLORO-2-BUTENE		=		1.0	1.0	1 0	חר	10
TRICHLOROETHENE	0.62 J		0 1	1 0	10	1.0	0.1	
TRICHLOROFLUOROMETHANE	2 U	2.13	0.0823	0.085	0.12 J	0.1095 J	C 660.0	10
VINYLACETATE	10	= -	2	0 7	2 U	2 U	2 U	2 U
VINYL CHLORIDE	10	0.13			1.0	1.0	10	0 +
Semivolatile Organics (ug/L)					0.47 J	0.405 J	0.34 J	1 U
1,2,4,5-TETRACHLOROBENZENE	10 U	10 U	10 11					
1,2,4-TRICHLOROBENZENE	10 U	10 01		10 0	13 U	11.5 U	10 U	10 U
1,2-DICHLOROBENZENE	10 U	10 U		0 :	13 U	11.5 U	U 01	10 U
1.3.5-TRINITROBENZENE	10 U	10 U		0.00	13 0	11.5 U	10 U	10 U
1,3-DICHLOROBENZENE	10 U	10 U	200	0 0	13 U	11.5 U	10 U	10 U
1,3-DINITROBENZENE	10 U	JO 01	= 4	10 0	13 U	11.5 U	10 U	10 U
1.4-DICHLOROBENZENE	10 U	10 U	10 (1	200	13.0	11.5 U	10 U	10 U
1.4-DIOXANE	10 U	10 U	10 17	200	13.0	11.5 U	10 U	10 U
4 OUTER THE COUNTY	10 U	10 U	10 11	79.0	13	14.5	16	J0 U
I.4-FHENYLENEDIAMINE	10 U	10 U	100	000	13.0	115 U	10 U	10 11
22 OXXBIST OF COMMINE	10 U	10 U	10 11	200	13 03	11.5 UJ	10 U	10 U
2 3 4 6 TETRACIII OROPROPANE)	10 U	10 U	10 (1	200	13.0	11.5 U	10 U	10 U
2.4.4. PER MACHIOROPHENOL	10 U	10 U	10 U	2 5	13.0	11.5 U	10 U	10 U
2.4 & TRICHI OPODIENOI	10 U	10 U	10 U	200	13.0	11.5 U	10 U	10 U
2.4-DICHI OROPHENOI	10 0	10 U	10 U	200	13.0	0.57	10 U	10 U
2.4-DIMETHYL PHENOL	0 01	10 U	10 U	10 U	12 2	0 6,11	10 U	10 U
2,4-DINITROPHENOL	2 2	10 0	10 U	10 U	13.11	1 3 44	J0 0L	10 U
2.4-DINITROTOLUENE	0.55	25 U	25 U	25 U	33 11	0 6 6	0.00	10 U
2.6-DICHLOROPHENOL		חפנ	10 U	10 U	13.11	11 2 11	Z5 U	25 U
2,6-DINITROTOLUENE		0.00	10 U	10 U	13 U	11.50	0.01	10 U
2-ACETYLAMINOFLUORENE	10 11		10 U	10 U	13 U	115 11	0 0 0	10 0
2-CHLORONAPHTHALENE	10 U	=======================================	0.00	10 U	13 U	11.5 U		0 0.
2 METICS IN THE NOT	10 U	10 U		10 U	13 U	11.5 U	10 0	
2-METHYL DHENO!	10 U	10 U	200	0 00	13 0	11.5 U	10 U	10 10
2-NAPHTHYI AMINE	10 U	10 U	10 U		13 0	11.5 U	10 U	10 U
2-NITROANILINE	10 0	10 U	10 U	- 01	3.0	115 U	10 U	10 U
2-NITROPHENOI	25 U	25 U	25 U	25.11	0 2 6	11.5 U	10 Ú	10 U
2-PICOLINE	0.00	10 U	10 U	2 2	33.0	29 U	25 U	25 U
3,3'-DICHLOROBENZIDINE	0.00	10 U	10 U	10 17	13.0	11.5 U	10 U	10 U
3.3DIMETHYLBENZIDINE		10 UR	10 UR	10 UR	13 1	0 611	10 U	10 U
3-METHYLCHOLANTHRENE	3 = 2	0.00	10 U	10 U	13 [1	11.0 0	10 U	10 U
*METHYLPHENOL	= =====================================	0.00	10 U	10 U	13 11	0 611	10 U	10 U
FNITROANILINE	25 11	0 00	10 U	10 U	13.0	1150	10 U	10 U
I.G.DINITRO-2-METHYLPHENOL	25 Ü	0.52	25 U	25 U	33 U	1 62	0.00	10 U
FAMINOBIPHENYL PRO: 000	10 U	100	25 U	25 U	33 U	29 U	0 67	25 U
CHIOSO 2 MENYL ETHER	10 U	10 17	0 2 4	10 U	13 U	11.5 U	1000	75 0
LOH OBOANII NE	10 U	10 U		0 0	13 U	11.5 U	10 11	
TOTICONOLINE	10 U	10 U		0 0 0	13 U	11.5 U	10 Ü	101
			22	U UL	13 U	11.5 U	1 44	2

order aoc	08e C	087 C	0.088	089 C	060 060	091 C	092 C	093 OIL WASTE COLL SYS
puno	199904	1999⊜4	199904	1999Q4	1999Q4	1999Q4		200003
jocation jnsample	MPT-TC-DPW04S MPT-TC-GW-MW04S-01	MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01	MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01-AVG	MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01-D	MPT-TC-DPW07D MPT-TC-GWDPW07D-01	MPT-TC-DPW07D MPT-TC-GWDPW07D-01-AVG	MPT-TC-DPW07D MPT-TC-GWDPW07D-01-D	MPT-47-DPW04S MPT-64-GW-39-04
sample	MPT-TC-GW-MW04S-01	MPT-TC-GW-DPW03DD-01	MPT-TC-GWDPW03DD-01-AVG	MPT-TC-GW-DU01	MPT-TC-GW-DPW07D-01	MPT-TC-GWDPW07D-01-AVG		MPT-G4-GW-39-04
sacode	NORMAL	DUP	AVG	ana	ana	AVG	and	NORMAL
top_depth bottom_dep	6666-	6666-	6666- 6666-	6666-	6866-	-8866 -8866	5886- 5886-	-9999 6698
gis_date sample_dat	19991203 12/03/99	19991201	19991201	19891201	19991206 12/08/99	19991206 12/06/09	19991206	20000707
validated								2000
do_proj proj_manag	HANSEN,T	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN.T	HANSEN.T	HANSEN.1	0123 HANSEN.T
sort	c 086		ΙI	1 1		Н		c_093
4-CHLOROPHENYL PHENYL ETHER 4-METHYL BHENIOL	10 0	10 C	10 U	10 U	13 U	11.5 U	10 U	₽ D
4-NITROANILINE	25.0	25 11	25 1	0 00	33 1	0 6.11	U OL	0 07
4-NITROPHENOL	25 U	25 Ü	25 Ü	25 Ü	33 U	29 U	25 U	25 U
4-NITROQUINOLINE-1-OXIDE	10 UR	10 UR	10 UR	10 UR	13 UR	11.5 UR	10 UR	10 UJ
7 12-DIMETHYL BENZ(A)ANTHRACENE		10 00	0.00	10 0	13 0	11.5 U	10 C	10 U
A.A.DIMETHYLPHENETHYLAMINE	20 05	202	111 05	0 00	0 52	0 6.11	0.00	UD 01
ACENAPHTHENE	10 U	U 01	J 01	10 0	13 U	115 U	200	3 5
ACENAPHTHYLENE	10 U	10 0	10 U	10 U	13 U	11.5 U	10 U	10 U
ACETOPHENONE	10 U	10 U	U 01	10 U	13 U	11.5 U	10 U	10 U
ANTUBACENE	10 C	10 U	10 U	10 U	13 U	11.5 U	10 U	10 U
ARAMITE	100	0 01	10 U	40 O	13 U	11.5 U	10 0	10 U
BENZO(A)ANTHRACENE	000	200	300	20 02	13 07	11.5 03	0.00	2 5 5
BENZO(A)PYRENE	0 OL	100	500	100	25	11.5 0		0 00
BENZO(B)FLUORANTHENE	10 U	10 U	10 U	10 U	13.0	115 U	700	101
BENZO(G.H.I)PERYLENE	10 U	10 U	10 U	10 U	13 U	11.5 U	10 U	10 U
BENZO(K)FLUORANTHENE	10 C	10 U	10 U	U 01	13 U	11.5 U	10 U	10 U
BIS/2-CHI OROFTHOXYMETHANE	0.00	10 0	0 0	10 U	13.0	11.5 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	10 0			0 0 0	13 0	11.5 U	0 9 9	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	12 U	85.0	n s	0 Z6	51.0	2 5	2 50
BUTYL BENZYL PHTHALATE	10 U	10 U	10 U	10 U	13 U	11.5 U	10 U	10 U
CHI OROBENZII ATE	10 0	10 U	10 U	10 U	13 U	11.5 U	10 U	10 U
CHRYSENE	3 - 5	10 07	LU OL	10 UJ	13 UJ	11.5 UJ	10 UJ	10 U
DI-N-BUTYL PHTHALATE	10 U	10 0	10 n	000	13.0	11.5 U		0 00
DI-N-OCTYL PHTHALATE	10 U	10 U	10 U	U 01	13 Ü	115 U	200	0 00
DIRECTOR DANITUDACENE	20 U	20 U	20 U	20 U	27 U	23.5 U	20 U	20 U
DIBENZOFURAN	10 0	10 0	10 C	10 U	13 U	11.5 U	10 U	10 U
DIETHYL PHTHALATE	10 U	200		0 2	13 0	115 U	10 0	10 U
DIMETHYL PHTHALATE	10 UR	10 UR	10 UR	10 UR	13 UR	11.5 UR	10 UR	10 18
DINOSEB DIPHENZI AMINE								20 U
ETHYL METHANE SULFONATE		0.00	10 0	10 U	13 U	11.5 U	10 U	10 U
ETHYL PARATHION	100	2	0 00	0 00	13.0	11.5 U	10 U	10 U
FLUORANTHENE	10 U	10 U	10 U	200	13 1	0	1 C	
FLUORENE	10 U	10 U	10 U	10 U	13.0	115.0		2 0 0
HEXACHLOROBENZENE	10 U	U 01	10 U	10 U	13 U	11.5 U	D Ot	10 U
JEXACHLOROBOLADIENE	10 U	10 U	10 U	10 U	13.0	11.5 U	U OL	10 U
JEXACHLOROETHANE	A C	10 UR	10 UR	10 UR	13 UR	11.5 UR	10 UR	10 UR
1EXACHLOROPROPENE	100	107	0.00	10 0	13 U	11.5 U	10 U	10 U
NDENO(1,2,3-CD)PYRENE	10 U	10 U	10 Ü	10 U	13 0	115.0	10.0	0 = 9
SOPHORONE		11 00						
SOSAFROLE	200	100	100	10.0	13 0	11.5 U	10 U	10 U
JETHAPYRILENE	10 U	10 U	J 0.	2 5	13 0	11.5 U	10 0	10 U
				2	2	000	0 01	0 01







order aoc ou	980 U	087 C	088 C	680 0	060 060	091 C	092 C	083 OIL WASTE COLL SYS
fround location insample sample matrix	1999Q4 MPT-TC-DPW04S MPT-TC-GW-MW04S-01 MPT-TC-GW-MW04S-01	1999Q4 MPT-TC-DPWQ3DD MPT-TC-GWDPWQ3DD-01 MPT-TC-GW-DPWQ3DD-01	19904 MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01-AVG MPT-TC-GWDPW03DD-01-AVG	1999Q4 MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01-D MPT-TC-GW-DU01	1999Q4 MPT-TC-DPW07D MPT-TC-GWDPW07D-01 MPT-TC-GWDPW07D-01	1898Q4 MPT-TC-DPW07D MPT-TC-GWDPW07D-01-AVG MPT-TC-GWDPW7D-01-AVG	1899Q4 MPT-TC-DPW07D MPT-TC-GWDPW07D-01-D	2000Q3 MPT-47-DPW04S MPT-64-GW-39-04
sacode top_depth bottom_dep	.9999 -9999 -9999	GW DUP -9999 -9999		GW DUP -9999		GW GW 4VG -9999		GW NORMAL -9999
gis date sample_dat validated	19991203 12/03/99	19981201 12/01/99	19991201 12/01/99	19991201 12/01/99	19991206 12/06/99	-3933 19891206 12/06/89	-9998 19991206 12/06/89	-9999 20000707 07/07/00
Cto_proj proj_manag	HANSEN,T	HANSEN,T	EN,T	HANSEN.T	HANSEN	H NUMBER OF STREET		0123
METHYL METHANE SULFONATE	c 086	c 087						HANSEN, 1
N-NITROSO-DI-N-BUTYLAMINE	100	0 5	10 0	10 U		11.5 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 D		0 00	13 U	11.5 U	10 U	10 U
N-NITROSODIETHYLAMINE	10 U	10 U	10 01	000	13.0	11.5 U	10 U	10 U
N-NITROSODIPHENVI AMINE	10 0	10 U	10 U	10 Ú	13.0	11.5 0	10 0	10 U
N-NITROSOMETHYLETHYLAMINE	100	200	10 U	10 U	13 U	11.5 U	000	10 0
N-NITROSOMORPHOLINE	10 C	100	20 0	10 U	13 U	115 U	10 U	10 U
N-NITROSOPIPERIDINE	10 U	10 U	0 00	10 0	13 U	11.5 U	10 U	10 U
NAPHTHAL ENE	10 U	10 U	10 U	10 U	13.0	115 U	10 U	10 U
NITROBENZENE	19 C	10 U	10 U	10 U	13 U	115 11	10 0	10 U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	10	00.	10 U	10 U	13 U	11.5 U	0 01	0 00
O-TOLUDINE	10 U	10 U	1001	1 0	7 0	10	1 0	
PENTACHI OROBENZENE	10 U	10 U	10 U	200	13.0	11.5 U	10 U	10 U
PENTACHLOROETHANE	0 01	10 U	10 U	10 U	13 Ü	115 12	10.0	10 0
PENTACHLORONITROBENZENE	200	2000	50 U	50 U	0.99	58 U	0.03	20.05
PENTACHLOROPHENOL	10 U	10 C		0 0 0	13 U	11.5 U	10 U	10 U
PHENANTHOENE	10 U	10 UJ	10 UJ	D 01	13.0	11.5 U	10 U	10 U
PHENOL	70 5	10 U	10 U	10 U	13.0	11.50	0 = 0	10 U
PRONAMIDE	100	10.0	10 0	10 U	13 U	115 0	200	10 0
PYRENE	10 U	000	0.00	10 U	13 U	11.5 U	10 0	10 U
SAFROIR	10 U	10 U	10 U	0.01	13 0	11.5 U	10 U	10 U
SULFOTEPP	10 U	10 U	10 U	10 Ú	13 U	11.5 U	10 U	
THIONAZIN							0 0	10 O
4.4'-DDD								
4.4.DDE	0 000	0.05 U	0.05 UJ	0.05 U.3	0.05 U	0.05 11	11 5000	
4,4'-DDT	0.05 UJ	0 000 U	0 005 U	0.05 U	0.05 U	0.05 U	0.05 U	
ALPHA-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	
ALPHA-CHLORDANE	0.00	0.05 U	0.05 U	0.05 U	0.05 U	0.000	0.05 U	
AROCLOR-1016	1 n	1 1	0.05 U	0.05 U	0.05 U	0.05 U	0.05	
AROCLOR-1221	1.0	10	0 3	2 =) -	1 0	10	
AROCLOR-1242) - -	10	D L			10	1 U	
AROCLOR-1248))	1 0	, l			1 U	
AROCLOR-1254			10	1 0	10		7	
AROCLOR-1260	1 U		5	10	1 0	10		
DEI TA-BHC	0.05 U	0.05 U	n 900	1 0	J C	1 0	10	
DIELDRIN	0.05 U	0.05 U	0.00	0 000	0.05 U	0.05 U	0.05 U	
ENDOSULFANI	0.000	0.05 U	U 500	0.05 U	0.000	0.05 U	0.05 U	
ENDOSULFAN II	0.05 U	0.05 0	0.05 U	0.05 U	0.05 U	0.03 0	0.05 U	
-NDRIN	0.05 U	0.05 U	0.05	0.05 UJ	0.05 U	0.05 U	0.05 U	
NDRIN ALDEHYDE	0.05 U	0.05 UJ	0.05 UJ	0.05 0	0.05 U	0.05 U	0.05 U	
	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U.	0.05 UJ	0.05 UJ	
				, , , , , , , , , , , , , , , , , , ,	0.00	U.05 U	0.05 U	

x c (sample set mod) 3/7/20078 56 AM full appendix results

	8	200	690	080	LEGI	760	033
ပ	U		U	U	U	U	OIL WASTE COLL SYS
			1999Q4	1999Q4	1999Q4		200003
			MPT-TC-DPW03DD	MPT-TC-DPW07D	MPT-TC-DPW07D		MPT-47-DPW04S
			MPT-TC-GWDPW03DD-01-D	MPT-TC-GWDPW07D-01	MPT-TC-GWDPW07D-01-AVG		MPT-G4-GW-39-04
			MPT-1C-GW-DU01	MPI-IC-GW-DPW0/D-01	MPI-IC-GWDPW0/D-01-AVG		MP1-64-6VF38-04
NORMAL	DUP		DUP	DUP	AVG		NORMAL
6666-	6666-		6666-	6866-	6668-	6666-	6666-
6666-	6666-	6666-	6666-	-6666	6666-		6666-
19991203	19991201	19991201	19991201	19891206	19991206		20000707
12/03/55	96/10/21	86/10/71	12/01/99	12/06/99	12/06/99		00//0//0
							L 0433
	T NEW T		- NII	- NEW AH	HANDEN		HANSEN T
			c 089	c 090	e 091	, in	c 093
0.05 U	0.05 11	0.05 11	l	0.05	0.05	0.05 17	
0 05 U	0.00	0.05 U	0.05 U	0.00	0 000	0 000	
0 005 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
0.05 U	0.0056 R	0 05 U	0.05 U	0.05 U	0.05 U	0 00 U	
0.05 U	0.05 U	0 000	0.05 U	0.05 U	U 90:0	0 000	
0.1 U	0.1 U	0.1 U	0.1 U	0.10	0.10	0.10	
) 1 C	1 C	1 C	10	10	10	J U	
0.1.0	0.1 U)	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	
10	J U	1 0	1 U	1 0	1 0	10	
2 U	2 U	2 U	2 U	2 U	2 U] 20	
10	1 0.1	1 (1)	1 0.1	u t	1 0	1 00	
1 0	10	10	1 U	D T	10	1.0	
10	1 0	1.0	1 U	10	1 0	10	
1 0	1 U	1.0	10	J C	1 U	1 0	
10	1 0	1 U	10	1 U	1 U	10	
10	1.0	1 0	1 0	1 U	10	1 0	
10	1 0	10	1 U	J U	٦ 1	1 0	
10	10	1 0	1 0	10	1 0	10	
0 \$	0 4 9	0.40	0 4 0	0 4 0	4 0	0.095 R	
20,000	no no	70 00	0.6 0.3	0.6 UK	0.6 UR	0.6 UR	
136.11	128	82.4	726 11	72.6 11	120 011		857
26.0	26.11	2 24	34	0.8.6	0.007	0.50	190
31	46	4.4	100	0 0.7	2.0 0.2	2.0 0	0 1.6
1611	45.B	45.65.1	45.6	25.5	3.2	2.7 0	29.0
03.0	03.11	11 80	1 60	2 50	0.5 5	L 5.5	70.0
0.2 U	02.0	0.50	0 20		2000	000	0.20
69100	35900	35150	34400	0350	0.2.0	0.20	0.30 0
1.6 U	16 U	16 U	18 1	18 1	18 11	194	2000
0.7 U	0.7 U	0.7 U	U 20	07.0	0.7.0	0.21	2000
1.1 U	1.1 U	1.1 0	11.0	1.10	110	11 =	1.5.1
102 U	833	767.5	702	847	876.5	906	2010
15 U	1.5 U	15 U	1.5 U	1.5 U	1.5 U	1.5 U	13.0
6030	65700	64200	62700	18800	19600	20400	4860
41.7	22.8	22.75	22.7	38.6	40	41.4	172 J
0.11 U	0.11 U	0.11 U	0.11 U	0.11.0	0.11 U	0.11 U	0.10 U
13.0	17	2.85	4	1.3 U	1.3 U	13.0	1.5
0211	80200	79750	79300	9620	10010	10400	2980
45.0	0 / 4	47.0	47 U	4.7 U	4.7 U	4.7 U	4.9 U
0 01	16 U	16 U	16 U	1.6 U	16 U	1.6 U	1.0 U
7.1	0000011	1125000	1100000	17900	18600	19300	25500
200	0 - 7	6//9	10	7.6	5.575	7.1 U	63 U
3.5	0.62	25 U	25 U	25 U	2.5 U	2.5 U	2.8 U
10.2 U		12 9 11	0.50	2.8	265	25	0.80 U
		2		0	0.66.4	0.6	12.9 U
2.2 UJ	0.9	4.5 U	3.0	22 UJ	2.2 UJ	22 111	10 111
	C-CGWANNO4S-01 C-CGWANNO4S-01 C-CGWANNO4S-01 C-CGWANNO4S-01 C-CGWANNO4S-01 C-CGWANNO4S-01 IAL	199904 MPT-TC-DPW03DD MPT-TC-GWDPW03DD-01 GW 9999 19999 19991201 1201/99 1200 0100 0110 0110 0110 0110 0110 01	1998Q4 1998Q9 1908Q9 1200Q9 1200Q9 1200Q9 1200Q9 100Q9 100	MFT-TC-DPMOSIDD MFT-TC-DPM	Handle H	MPT-TC-CPM/MODD MPT-TC-CPM	MANIENT MANI



order	980 O	087 C	088	690	080 U	091 C	092 C	093 OIL WASTE COLL SYS
punou	199904	199904	199904	*C0001	700001	,0000		
location	MPT-TC-DPW04S	MPT-TC-DPW03DD	MPT-TC-DPW03DD	MPT-TC-DPW030D	MPT-TC-DPM070	MOT TO DOMOZO	1999C4	2000Q3
nsample	MPT-TC-GW-MW04S-01	MPT-TC-GWDPW03DD-01	MPT-TC-GWDPW03DD-01-AVG	MPT-TC-GWDPW03DD-01-D	MPT-TC-GWNPWNZD-04	MPT-TC-CMDPM070 04 AVG	MPT-1C-DPW0/D	MP1-47-UPW04S
sample	MPT-TC-GW-MW04S-01	MPT-TC-GW-DPW03DD-01	MPT-TC-GWDPW03DD-01-AVG	MPT-TC-GW-DU01	MPT-TC-GWLDPAN7D-03	MPT-TC-GMDPM070-01-AVG	MPT-1 COWDING	MPT-C4-CW-SFC4
matrix	GW	GW		W. C.		DAY-IO-DANGLAND-DI-I-III	MPT-1-COVP-DOM	MP-1-64-5W-34-04
sacode	NORMAL	DUP			900	AND COM	, e	O.W.
top_depth	6666-	6666-		2000	0000	5000	700c	NORMAL
bottom_dep	6666-	5666-	6866	0000	6666	See o	BASA-	8886-
gis date	19991203	19991201	19991201	19991	10001	-9383	8686-	-8888
sample dat	12/03/99	12/01/00	1207100	02166	onziessi	SUSTINGE.	19891206	20000707
validated		60.07	20103	88/L0/71	12/06/99	12/06/89	12/06/99	00/20/20
cto_proj								
pro manag	HANSEN	HANSEN T	HANNEN H	HANSIN T	H Z	l c		0123
sort	086 0	c 087		200		LV, I	HANSEN,	HANSEN,T
NITRATE				600	nen o	c oal	c 092	c_093
NITRITE								
SULFATE								

order	1001	002	33		900	9	7	8	6
aoc	ပ	ပ		ပ		ပ	O	<u>U</u>	ပ
no	BLDG	BLDG	BLDG						
Toron	20000	200002		70000	70000	400500	100500	100503	400602
Contion	MDT.AC.CIT.01	60110	MDT-AC-CC03	0000	MOT CA BO7	1995QZ	MANAGE	1993012	1993QZ
nsample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	ģ	MPT-G4-SU-07-05	TCB00103		TCB00303	TCB00403
sample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	004-04	MPT-G4-SU-07-05	TCB00103		TCB00303	TCB00403
matrix	SB	SB	SB		So	SO	SO	SO	SO
top_depth	4	4			_	6	3	n	9
bottom_dep	ı,					3	3	6	3
gis_date	20000802	2			7	19950531	19950531	19950531	19950531
	00/20/90	08/02/00	00/82/11	00/82/11	06/2//00	05/31/95	05/31/95	05/31/95	05/31/95
Clo proj	0433	2,00	9	9	L 0400	2 00	2 6	2 6	2 8
oroj manad	HANSEN 7	EN T							UZB HANSEN T
sort	c 001		C 003	004	C 005	C DOB	C 007	DOB	C 000
Volatile Organics (ug/kg)	,								
1,1,1,2-TETRACHLOROETHANE	0 6.9	7.3 U	6.2 UJ	7.1 UJ	5.9 U	0.9	0 9	11 9	11 9
1,1,1-TRICHLOROETHANE	2.9 ∪	7.3 U	6.2 U	710	5.9 U	1 9		11 9	
1,1,2,2-TETRACHLOROETHANE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0.9	0 9	n 9	0 9
1,1,2-TRICHLOROETHANE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0 9	0 9	0.9	0 9
1,1-DICHLOROETHANE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0 9	O 9	N 9	0.9
1,1-DICHLOROETHENE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0 9	0.9	0 9	n 9
1,2,3-TRICHLOROPROPANE	5.9 U	7.3 U	6.2 U	7.1 U	D 6:5	0 9	0.9	0.9	0.9
1.2-DIBROMO-3-CHLOROPROPANE	12 UJ	15 UJ	12 U	14 U	12 U	12 U	13 U	12 U	11 0
1,2-DIBROMOETHANE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	6.0	0 9	0 9	∩ 9
1.2-DICHLOROBENZENE						6.0	6 U	9 ∩	∩ 9
1,2-DICHLOROETHANE	2.9 U	7.3 U	6.2 U	7.1 U	5.9 U	6 U	0 9	0 9	0 9
1,2-DICHLOROPROPANE	9.9 U	7.3 U	6.2 U	7.1 U	5.9 U	6 U	6 U	0 9	0 9
1,3-DICHLOROBENZENE						O 9	9	0 9	0 9
1 4 DIOXANE						n 9	0.9	9 ∩	0 9
2.BIITANIONE						230 R	260 R	250 R	230 R
2.CHI OBOETHYI VINYI ETILEB	24 0	0.82	75 0	28 U	24 U	12 R	13 R	12 R	11 R
2-HEXANONE	0 60	2 2	20 20		0 86	12 U	13 U	12 U	11 U
3-CHLOROPENE	12 1	73 0	72 0	2 3	24 0	12 U	13 U	12 U	11 C
4-CHLORO-3-METHYI PHENOI	2 4	2	0.71	2	0 21	0 9	9	9	9
4-METHYI -2-PENTANONE	11 76	1.00				380 0	430 U	7	370 ∪
ACETONE	24	20 02	0 67	0 28 0	74 0	12.0	13.0	12 U	÷ ;
ACETONITRILE	120 LIR	150 IR	120 110	740 7 10	420 110	120 71	13.0	12 U	11 0
ACROLEIN	120 UR	150 UR	120 UR	140 JR	120 OZ	120 07	130 00	720 0	U 0.L.
ACRYLONITRILE	120 UR	150 UR	120 U	140 U	120 11	120 12	130	120 02	
BENZENE	9.9 ∪	7.3 U	6.2 U	7.1 U	5.9 U	0 03	1 9	2002	
BROMODICHLOROMETHANE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0 9	2 9	0 =	=
BROMOFORM	5.9 U	7.3 U	6.2 ∪	7.1 U	5.9 U	0 9	0 9		
BROMOMETHANE	12 U	15 U	12 U	14 U	12 U	12 U	13 U	12 U	1 0 1
CAPBON TETPACHI OBIDE	5.9 U	7.3 U	6.2 ∪	7.1 U	5.9 U	1.	0 U	6 U	7 9
CHIODOBENZENE	0 5.6	7.3 U	6.2 U	7.1 U	5.9 ∪	6 U	0 9	0 9	⊃ 9
CHI ORODIBROMOMETHANIE	0.00	73.0	6.2 U	7.1 U	5.9 U	0 0	0 9	0.9	0 O
CHI OROFTHANE		0 87	6.2 U	7.1 U	5.9 ∪	0 0	0 9	0.9	6 U
CHIOROFORM	0 71	0 61	12 U	14 U	12 U	12 U	13 U	12 U	11 U
CHLOROMETHANE	12 11	15.1	6.2 U	7.10	2.9 U	9 0	0 9	n 9	0 9
CHLOROPRENE	11 65	73	2 2 3	1111	0 2 2	ח אַנ	13.0	12 U	10
CIS-1,2-DICHLOROETHENE	3.0	37 🗆	31 -1	35	0 8.0	730 0	Z60 U	250 U	230 U
CIS-1,3-DICHLOROPROPENE	5.9 U	7.3 U	6.2 U	7.1 0	5.9 U	79		=	11 4
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NAMI					47,53				
round	200003	200003	200004	200004		1995Q2	1995Q2		1995Q2
nsamole	MPI-AC-SU-01			MPT-AC-SS04		TCS00101	MPT-TC-MW06S		TCS00401
samole	MPI-AC-30-01-03	MP1-AC-SU-02-03	MP1-AC-SU03-04	MP1-AC-SU04-04	_	TCB00103	TCB00203	TCB00303	TCB00403
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DIBROMOMETHANE	5.9 U	5	5.2 U	1 0				900 3	800 3
DICHLORODIFLUOROMETHANE	12 U	15 U	12 U	14 U	12 U	12 =	2 = 2	2 = 2	
ETHYL METHACRYLATE	5.9 U		6.2 U	7.1 U	5.9 U	0 9	2 9	2 = 9	2 =
ETHYLBENZENE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	n 9	0 9	0 =	0 =
ISOBUTANOL	240 UR	290 UR	250 UR	280 UR	240 UR	230 R	260 R	250 R	300
METHACKYLONITRILE	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	∩ 9	0.9	n 9	1 9
METUNI METUN ATT	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	12 U	13 U	12 U	11 0
METUNI TEST SITNI FTUTE	5.9 U	7.3 ∪	6.2 U	7.1 U	5.9 U	12 U	13 U	12 U	11 U
METHYL FUE CLI OBINE	24 U	73 ∩	25 U	28 U	24 U				
PENTACHI OROETHANE	0 8.6	7.3 U	3.8 J	3.8 J	5.9 U	2 J	4)	L 4	-
PROPIONITRILE	GI I VC	91.00		:		12 U	13 U	12 U	11 U
STYRENE	11 65	73 11	23 0	7,00	74 0	120 U	130 U	120 U	110 U
TETRACHLOROETHENE	5.9 U	73.0	62		D = 0	0 =	0 9) 9	⊃ :
TOLUENE	5.9 U	7.3 U	62.0	71 1	0 0 0	0 =	0 0	٥١٩	0 9
TOTAL 1,2-DICHLOROETHENE	5.9 U	7.3 U	6.2 U	71 11	1 65	0 =		0 =	0 9
TOTAL XYLENES	5.9 U	7.3 U	6.2 U	7.1 U	5.9 U	0 9)		0 =
TRANS-1,2-DICHLOROE IHENE	3 ∪	3.7 U	3.1 U	3.5 U	3.0			2	
TRANS-1, S-DICHLORO 2 BITTENE	D 63	7.3 U	6.2 ∪	7.1 U	5.9 U	9	0.9	0.9	n 9
TRICH OROFTHENE	0 80	7.3 U	6.2 U	7.1 U	5.9 U	6 U	9	0.9	Ω9
TRICHLOROFLUOROMETHANE	23.0	15.1	6.2 U	7.1 0	5.9 U	0 0	0 9	6 U	6 U
VINYL ACETATE	12 UJ	15 11	12 0	0 =	12 U	0 9	0 9	0.9	2 J
VINYL CHLORIDE	12 U	15 U	2 5	2 2	12 m	12 0	13 U	12 U	11 U
Semivolatile Organics (ug/kg)				,	0 3	מ מ	13 0	12 U	4 n
1,2,4,5-1ETRACHLOROBENZENE	400 ∪	430 ∪	370 ∪	430 U	420 U	1900 1	2100 11	11 0000	1000
12-DICHI OROBENZENE	400 C	430 ℃	370 U	430 U	420 U	380 ∪	430 U	400 U	370 11
1.2-DIPHENYLHYDRAZINE	400 UK	430 UR	370 ∪	430 ∪	420 U				
1,3,5-TRINITROBENZENE	1900 U	2100 U	1800 11	2400	11 0000	380 ∩	430 U	400 U	370 U
1,3-DICHLOROBENZENE	400 U	430 U	370 U	430 U	420 -	200	430 0	400 0	370 U
1.4-DICHI OBOBENZENE	400 UJ	430 UJ	370 U	430 U	420 U	380 U	430 []	11 004	370 11
1.4-DIOXANE	0 004	430 U	370 U	430 U	420 U				200
1.4-NAPHTHOOUINONE	400 0	430 U	370 UJ	430 UJ	420 U				
1,4-PHENYLENEDIAMINE	7	7300 0	1800 U	2100 U	2000 U	38000 ∪	43000 R	40000 R	37000 R
1-NAPHTHYLAMINE	400 U	430 []	370 0	4300 U	4200 U	19000 UJ	21000 UJ	20000 UJ	18000 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	400 ∪	430 U	370 -1	130.0	420 0	1900 UJ	2100 UJ	2000 UJ	1800 UJ
2.3.4,6-TETRACHLOROPHENOL	1900 U	2100 U	1800 U	2100 U	2000	380 0	430 U	700 €	370 U
2,4,3-1 KICHLOROPHENOL	400 U	430 U	370 U	430 U	420 U	1900	430 0	2000	370 U
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location	MPT-AC-SU-01	MPT-AC-SU-02	MPT-AC-SS03	MPT-AC-SS04	MPT-G4-B07	TCS00101	WDGS	TCS00301	TCS00401	
nsample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05	TCB00103			TCB00403	
sample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05		TCB00203	TCB00303	TCB00403	
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2,4,6-TRICHLOROPHENOL	400 U	130 U	70 U	30 ∪	20 U	380 U	430 U	100	370 ∪	
2,4-DICHLOROPHENOL	400 ∪	430 ∪	370 U	430 ∪	420 U	380 ∪	430 U	400 U	370 U	
2,4-DIMETHYLPHENOL	400 U	430 U	370 U	430 U	420 U	380 U	430 U	400 ∪	370 ∪	
2,4-DINITROPHENOL	1900 UJ	2100 UJ	1800 U	2100 U	2000 ∪	1900 U	2100 U	2000 U	1800 U	
2,4-DINITROTOLUENE	400 U	430 U	370 U	430 U	420 U	380 ∪	430 U	400 ∪	370 U	
2,6-DICHLOROPHENOL	400 U	430 U	370 ∪	430 U	420 U	380 UJ	430 UJ	400 UJ	370 ∪J	
2,6-DINITROTOLUENE	400 U	430 U	370 U	430 U	420 U	380 ∪	430 U	7004	370 U	
2-ACETYLAMINOFLUORENE	4000 U	4300 U	3700 U	4300 U	4200 U	380 UJ	430 UJ	400 UJ	370 UJ	
2-CHLORONAPHTHALENE	400 U	430 U	370 U	430 U	420 U	380 ∪	430 ∪	004	370 U	
2-CHLOROPHENOL	400 U	430 U	370 U	430 U	420 U	380 U	430 ∪	400 ∪	370 U	
2-METHYLNAPHTHALENE	400 ∪	430 ∪	370 U	430 U	420 U	380 U	430 U	004	370 U	
2-METHYLPHENOL	400 U	430 U	370 U	430 U	420 U	380 U	430 U	400 ∪	370 ∪	
2-NAPHTHYLAMINE	400 U	430 U	370 U	430 U	420 U	1900 UJ	2100 UJ	2000 UJ	1800 UJ	
2-NI ROANILINE	1900 U	2100 U	1800 U	2100 U	2000 U	1900 U	2100 U	2000 U	1800 U	
2-NI ROPHENOL	004	430 U	370 U	430 U	420 U	380 ∪	430 U	400 U	370 U	
2-PICOLINE	D 800	870 U	740 U	850 U	830 U	1900 U	2100 U	2000 U	1800 U	
3.3. DICHI ODOBENZIDINE						380 U	430 ∪	400 ∪	370 U	
3.3-DICHLOROBENZIDINE	1900 U	2100 U	1800 ∩	2100 U	2000 U	770 U	860 U	810 U	750 U	
2.3-DIME DITLEENZIDINE	U 0061	2100 U	1800 UJ	2100 UJ	2000 U	380 UJ	430 UJ	400 UJ	370 UJ	
2-METHYL DIENOL	000	870 U	740 0	850 U	830 U	380 ∩	430 U	400 U	370 U	
2-NITBOANII ME	400 0	430 U	370 U	430 U	420 U					
4 6-DINITRO-2-METHY! DHENO!	1300 0	2100 0	0 0081	2100 U	2000 U	1900 C	2100 U	2000 U	1800 U	
4-AMINOBIPHENY	1900	2100 02	1900 0	0 0012	7000	0 0081	2100 U	2000 U	1800 U	
4-BROMOPHENYL PHENYL ETHER	400	430 11	370 0	730 11	2000	2000	2100 UJ	2000 U.	1800 UJ	
4-CHLORO-3-METHYLPHENOL	400	430 11	370	430 0	120 07	200 0	0.054	0 00	3/0 0	
4-CHLOROANILINE	400 U	430 U	370 🗓	430 11	420 11	11 086	130 11	1.007	11 026	
4-CHLOROPHENYL PHENYL ETHER	400 U	430 ∪	370 U	430 U	420 11	380	130 54	1 200	370 0	
4-METHYLPHENOL	400 U	430 U	370 U	430 ∪	420 U		3	8		
4-NITROANILINE	1900 U	2100 U	1800 U	2100 U	2000 U	1900 U	2100 U	2000 U	1800 U	
4-NITROPHENOL	1900 U	2100 ∪	1800 U	2100 U	2000 U	1900 U	2100 U	2000 U	1800 U	
F-NITBO O TO LIDINE	4000 UJ	4300 UJ	3700 U	4300 U	4200 UR	19000 R	21000 U	20000 U	18000 U	
7 19-DIMETHY! BENZ/ANTHOACENE	008	870 U	740 U	850 U	830 U	380 U	430 U	400 U	370 U	
A A-DIMETHY! PHENETHY! AMINE	200,	870 U	740 U	850 U	830 ∪	380 U	430 U	400 U	370 U	
ACENAPHTHENE	0.006	Z100 U	1800 UJ	2100 UJ	2000 U	1900 UJ	2100 UJ	2000 UJ	1800 UJ	
ACENAPHTHYLENE	400 0	430 U	370 U	430 U	420 U	380 U	430 U	400 U	370 U	
ACETOPHENONE	2 007	130.0	3/0 0	0.000	420 0	0 086	430 ∪	400 ∪	370 U	
ANILINE	1 004	2007	370 0	430 0	420 0	380 0	430 U	D	370 U	
ANTHRACENE	400 U	130	370 0	430 0	420 0	280 0	430 U	400 0	370 U	
			200		420 0	380 0	430 D	400 0	370 U	
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nsample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SURA-DA	MPT-AC-3304	MP1-64-80/	1CS00101	MPT-TC-MW06S	TCS00301	TCS00401
sample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04		TCB00103	TCB00203	TCB00303	TCB00403
matrix	SB	SB	SB	SB S		50100	CBOXX03	300303	TCB00403
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ARAMITE	11 008	102							c 009
BENZIDINE	3	0 0/0	U 04/	850 U	830 ∩	1900 U	2100 U		1800 U
BENZO(A)ANTHRACENE	1 20					1900 UJ	2100 U	2000	1800 11
BENZO(A)DYDENE	400 0	430 C	370 U	430 U	420 U	380 ∩	430 11	400 11	1 22
BENZO/BIELLIODANITURNIT	400 0	430 ∪	370 U	430 ∪	420 U	380	430 11	200	370 0
DENIZO(D) LOCKSIN (TEINE	400 €	430 U	370 ∪	430 ∪	420 U	380 =	200	3	3/0 0
DENZO(G, H, I) PERYLENE	400 U	430 U	370 ∪	430 U	420 11	11 086	430 0	400 0	370 ∪
BENZO(K)FLUOKAN I HENE	400 ∪	430 ∪	370 🗆	11 057	730	3 - 68	100 OC	400 03	370 UJ
BENZOIC ACID					440 0	0 000	430 U	400 ∩	370 U
BENZYL ALCOHOL	400 U		11 026	1.007		1900 U	2100 U	2000 U	1800 ∪
BIS(2-CHLOROETHOXY)METHANE	400		200	430 0	420 0	380 U	430 U	400 ∪	370 U
BIS(2-CHLOROETHYL)ETHER	400	2 2 2	270.0	430 U	420 O	380 ∩	430 U	7 004	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	400		3/0 0	430 U	420 U	380 U	430 ∪	400 ∪	370 U
BUTYL BENZYL PHTHALATE	2 5		3/0 0	430 U	420 U	380 ∩	430 ∪	004	370 11
CARBAZOLE	400 0		370 U	430 ∪	420 U	380 ∪	430 ∪	1 004	270
CHLOROBENZILATE	0.00	430 U	370 U	430 U	420 U				
CHRYSENE	0 00		370 U	430 U	420 ∪	25 ∪	26 11	24	11 66
DI-N-BLITY! PHTHA! ATE	400 0		370 U	430 ∪	420 U	380 ∪	430	2 6	0 72
DI-N-OCTYI PHTHAI ATE	0 00	430 U	370 U	430 U	420 U	380 ∪	430 11	2 2 2	370 0
DIALIATE	D 000	430 U	370 U	430 ∪	420 U	380 1	430	2 2 2	0.000
DIBENZO(A H)ANTHRACENE	000	870 U	740 U	850 U	830 ∪	19 ∪	54 U	1 67	3/0 0
DIBENZOFLIRAN	0 000	430 0	370 U	430 U	420 U	380 ∪	430 111	111 007	
DIETHYL PHTHAI ATE	400 00	430 U	370 U	430 U	420 U	380 U	430 11	3=	370 07
DIMETHY! PHTHA! ATE	400 0	430 U	370 U	430 U	420 U	380 ∪	430 11	2 2	3/0 0
DINOSEB	400 0	430 U	370 U	430 ∪	420 U	380 11	430	3 5	370 0
DIPHENYI AMINE	CO 008	870 UJ	740 ∪	950 ∪	830 UJ		2	0 004	3/0 0
ETHY! METHANE S'II EONATE	400 0	430 U	370 ∪	430 U	420 (1				
FILOPANTHENE	400 ∪	430 U	370 U	430 U	420 11	11 080	1.007		
FLUORENE	400 0	430 U	370 U	430 ∪	420 U	380 -1	120 0	2000	370 U
HEXACHLOROBENZENE	0 200	430 ∪	370 ∪	430 U	420 U	380 ∪	430	200	3/0 0
HEXACHLOROBUTADIENE	100	430 U	370 U	430 U	420 U	380 ∪	430 11	7 2 2	370 0
HEXACHLOROCYCLOPENTADIENE	0 000	430 0	370 U	430 U	420 U	380 ∪	430	2 2	0.075
HEXACHLOROETHANE	0 006	0 0012	1800 U	2100 U	2000 U	380 ∪	430 11	2 5	370 0
HEXACHLOROPHENE		430 0	370 U	430 ∪	420 U	380 ∪	430 U	400	370 0
HEXACHI OROPROPENE	4000 11	4300 11	11 0020			19000 R	21000 UJ	20000	18000
INDENO(1,2,3-CD)PYRENE	400 11	1300	0.00/6	4300 U	4200 U	1900 UJ	2100 ∪	2000	1800
SODRIN		3	2000	430 U	420 U	380 UJ	430 UJ	400 111	370 111
ISOPHORONE	400 11	430 11	1,070			0.83 U	0.86 ∪	0.82	27.0
ISOSAFROLE	008	1 028	0.075	430 U	420 U	380 ∪	430 ∪	400 U	370 11
METHAPYRILENE	1900	2100	0 000	058 0	830 U	1900 U	2100 U	2000	1800
METHYL METHANE SULFONATE	400 1	730 17	1800 03	2100 UJ	2000 U	1900 UJ	2100 UJ	2000 UJ	1800
from newsoceh cam abé		2 22	3/0 0	430 U	420 U	380 UJ	430 UJ	400 UJ	370 UJ
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location	MPT-AC-SU-01	MPT-AC-SU-02				TCS00101	MPT-TC-MW06S	TCS00301	TCS00401
nsample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05	TCB00103	TCB00203	TCB00303	TCB00403
sample	MPT-AC-SU-01-05	MPT-AC-SU-02-05		T-AC-SU04-04	_	TCB00103	TCB00203	TCB00303	TCB00403
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sort	c 001					5 006	c_007		c_009
N-NITROSO-DI-N-BUTYLAMINE	400 U	430 U		430 U	420 U	380 U	430 U	DO U	370 U
N-NITROSO-DI-N-PROPYLAMINE	400 €	430 ℃	370 U	430 ∪	420 U	380 U	430 U	400 ∪	370 U
N-NI ROSODIE HYLAMINE	400 U	430 €	370 U	430 U	420 ∩	380 U	430 ∪	400 U	370 U
N-MI ROSODIME I HYLAMINE	400 0	430 U	370 U	430 U	420 U	380 0	430 U	400 N	370 U
N-NI ROSODIPHENYLAMINE	7 00 C	430 C	370 U	430 U	420 U	380 U	430 U	400 U	370 U
N-NI-NI-NOSOMOETHYLE HYLAMINE	400 U	430 U	370 U	430 U	420 U	380 U	430 ∪	400 ∪	370 U
NINTEDSCORIDERINIE	0 000	430 0	3/0 0	430 U	420 U	380 0	430 U	400 U	370 U
N-NITEOSODY BENDINE	700	430 0	370 0	430 0	420 0	380 0	430 0	400 0	370 U
NADITHALENE	7000	430 0	370 0	430 0	420 0	380 0	430 U	400 0	370 U
NITROBENZENE	0 00	430 0	370 0	430 0	420 O	380 0	430 U	400 U	370 U
O-TOLLIDINE	0 007	430 0	3/0 0	0.059	0.024	0.000	430 U	700	370 U
P-(DIMETHY) AMINO AZOBENZENE	000	0,00	740 0	0000	030 0	2000	430 0	0 000	3/0 0
PENTACHLOROBENZENE	400 U	430 11	370	1 027	1 024	1 000	1200	1 0000	3/0 0
PENTACHLOROETHANE	1900 U	2100 U	1800 11	2100 11	1 000	200	3	0 0007	0 000
PENTACHLORONITROBENZENE	1900 U	2100 U	1800 U	2100 U	2000 U	1900 11	2100 11	11 0000	1800 11
PENTACHLOROPHENOL	1900 U	2100 U	1800 U	2100 U	2000 U	1900 U	2100 U	2000	1800 U
PHENACETIN	800 U	870 U	740 U	850 U	830 U	380 ∪	430 ∪	400 U	370 U
PHENANTHRENE	400 U	430 U	370 U	430 U	420 U	380 ∪	430 U	400 U	370 U
PHENOL	400 U	430 ∪	370 ∪	430 U	420 U	380 ∪	430 ∪	400 ∪	370 U
PRONAMIDE	800 U	U 078	740 U	850 U	830 U	380 ∪	430 U	400 0	370 U
PYRENE	400 U	430 U	370 U	430 U	420 U	380 U	430 U	400 ∪	370 U
PYRIDINE		870 U	740 U	850 U	830 U	1900 U	2100 U	2000 ∪	1800 U
SATROLE	800 U	870 U	740 U	850 U	830 U	1900 UJ	2100 UJ	2000 UJ	1800 UJ
THIONAZIN			1800 U	2100 U					
Pesticides/PCBs (ua/ka)			0 0081	2100 0					
4,4'-DDD	210	22 11	191	2211		1 9 1	17.11		
4,4-DDE	1.1 J	2.9	1.9 U	2.2 U		0.83 U	0.86 U	11 280	1.57.0
4.4'-DDT	2.1 U		1.9 U	2.2 ∪		1.6 U	1.7 U	1.6 U	1.5 U
ALDRIN ALDUA DIS	2.1 U	2.2 U	1.9 U	2.2 U		0.83 U	0.86 U	0.82 U	0.75 U
ALFIA-BIC	2.1 U		1.9 U	2.2 U		0.83 U	0.86 U	0.82 U	0.75 U
APOCI OP-1016	2.1 U		1.9 U	2.2 U					
ABOCI OB 1331			37 ∪	43 U		41 U	42 U	40 U	37 U
ABOCI OB 1939	40 0		37 U	43 ∪		83 U	86 ∪	82 U	75 U
AROCI OR-1242	0 0 0		37 U	43 U		83 U	86 U	82 U	75 U
AROCI OR-1248	0 =	43 0	37 U	43 U		41 U	42 U	-40 ∪	37 U
AROCLOR-1254	0 0		3/ 0	43 U		41 0	45 U	40 ∪	37 U
AROCLOR-1260	0 = 0	25.0	3/ 0	43 0		21 0	22 U	21 U	19 U
	0 0+	45.0	3/ 0	43 U		21 U	22 U	21 U	19 U
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puriou	-								
g	200003	200003	200004	200004		199502	199502	1995Q2	199502
a	IMPI-AC-SU-U1	MPI-AC-SU-02	MPT-AC-SS03	MPT-AC-SS04	MPT-G4-B07	TCS00101	MPT-TC-MW06S	TCS00301	TCS00401
	MP1-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05	TCB00103	TCB00203	TCB00303	TCB00403
	MP1-AC-50-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05		100203	TCB00303	TCB00403
too death	20	92	6	SB	80	SO	_	SO	80
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ole College	~	20000802	80		20000627		19950531	19950531	19950531
sample_dat	08/02/00	08/02/00	11/28/00			05/31/95	05/31/95	05/31/95	05/21/05
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BETA-BHC	2.1 U	2.2 U	7 6			11 9	2 007		600 S
CHLORDANE						0 :		1.6 U	1.5 U
DELTA-BHC	2111	2211	10 +	66		0.3 0	8.6 U	8.2 U	19
DIELDRIN	2112	2 2 2	7	7.7		0.83 U	0.86 U	0.82 U	0.75 U
ENDOSULFANI	24 -1	22.5	0 :	2.2 U		0.83 U	0.86 U	0.82 U	0.75 U
ENDOSIJI FAN II	2 2 2	2.2 0	0 8.1	2.2 U		0.83 U	0.86 U	0.82 U	0.75 U
ENDOSI II FAN SI II FATE	7.70	2.2 U	1.9 U	2.2 U		1.6 U	1.7 U	1.6 U	1.5 U
ENDOIN	2.1 U	2.2 U	1.9 U	2.2 U		1.6 U	1.7 U	161	15
CNDBIN A DELIVER	2.1 U	2.2 U	1.9 U	2.2 U		1.6 U	17.1	19 11	2 4
ENDRIN ALDEMYDE	2.1 U	2.2 U	1.9 U	2.2 U		191	17	2 4	0 2 4
ENDRIN KETONE	2.1 U	2.2 U	1.9 U	22 U		2 2 2	2 -	2 3	2
GAMIMA-BHC (LINDANE)	2.1 Ū	2.2 U	1.9 U	2.2 U		1 680	0 30 0	0.00	0 2
GAMIMA-CHLORDANE	2.1 U	2.2 U	1.9 U	2.2 U			2	0.02	0.73
HEPTACHLOR	2.1 U	2.2 U	1.9 U	22 U		0 83 11	1 900		
HEP I ACHLOR EPOXIDE	2.1 U	2.2 ∪	1.9 U	22 11		2 5 6 6	0.00	0.02	0.75 U
ISODRIN	4 0	43 ∪	3.7 U	43		2	0.00	0.82 U	0.75 U
KEPONE	- Q4 - C	43 ∪	37 U.J	111 67		- 07			
METHOXYCHLOR	4 0	4.3 U	37 11	4315		25.0	U Fe	49 U	45 U
IOXAPHENE	81 U	0 88 U	75 11	Re II		2	0.5	3.3 U	3 C
OrganoPhos Pesticides (ug/kg)				3		7	45 U	40 0	37 ∪
DIMETHOATE			101	11 87					
DISULFOTON			37	1 2 2					
ETHYL PARATHION			37						
FAMPHUR			2 12	2 2					
METHYL PARATHION			15 6	2 5					
0,0,0-TRIETHYL PHOSPHOROTHIOATE			37.0	2 5					
PHORATE			34.0	43.0					
SULFOTEPP			37.0	43 U					
THIONAZIN			31 0	25 6					
Herbicides (ug/kg)			5	2					
2,4,5-T			11 82	11 36					
2.4.5-TP (SILVEX)			23 U	1 90					
2.4-0			106	100					
DINOSEB Transport - 11-11-11			14 U	15 U		1			
AT INTERIOR (FINGING)									
ANTIMONIX	434 J	167 J	402 J	424 J	513.1				
ARKENIC	0.52 U	0.57 U	0.35 U	0.4 U	0.39 U	12	13 1		
BARILIM	0.75	0.47 U	0.36 U	0.41 U	0.37 ∪	0.42 U.	1 000	0 27	
BERYLLIUM	6.1	3.7	5.3	3.8	1.7	4.1 J	22.00	27 - 72	0.2 0.7
CADMIUM	0.024 U	0.026 U	O.92 □	0.04 U	0.03 U	ر 20.0	0.14 J	0.15.1	11 200
	200.0	Sco.u	0.04	0.03 U	0.04 U	0.28 U	0.31 U	0.29 U	0.27 U
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sbsubsurface soil full appendix results

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SWITH)				47.53				
round	200003	200003	200004	200004	2	1995Q2	199502	199502	1995Q2
location	MPT-AC-SU-01	MPT-AC-	_	_		TCS00101	MPT-TC-MW06S	TCS00301	TCS00401
пѕатріе	MPT-AC-SU-01-05	MPT-AC-				TCB00103	TCB00203	TCB00303	TCB00403
sample	MPT-AC-SU-01-05	MPT-AC-SU-02-05	I-AC-SU03-04	r-AC-SU04-04	F-G4-SU-07-05	00103	100203	300303	TCB00403
matrix	88	~		a			0	0	SO
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sample_dat	08/02/00	08/05/00	/28/00	/28/00	06/27/00	/31/95	731/95	05/31/95	05/31/95
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CALCILIM	4500 1	1 30	24700	2400	7. 03				200
CHROMILIM	1 8 6	130.0	91,00	3400	139 0	17.70			
COBALT	0.27 11	2000	2 9 5	1 1 1	200	0.40	7 - 0	6.00	7.7
CODDER	0.27 0	0.23 0	0.10		0.00	0.72 0	0.0	0.70	0,'0
IRON	64B	183	552	0.450	0.32	6.7.7	6.1.3	C 4:	
LEAD	1.5	22	- 60	30	AG. C	0.63	1 730	;	* * *
MAGNESIUM	115	38.5	202	787	24.4	3	200	3	-
MANGANESE	2 8 9	3.5	128 1	20.0					
MERCLIRY		1 600	2.00	- 50	7 7 7				
MOLYBDENUM	0.02	0.022	0.02	0.02	0.00	0.00	0.04	0.03	0.03
NICKEL	0.23	0.25 11	11 60	11 30 0	11 60 0	13.5	1 4 5		
POTASSIUM	34.5	21.8	70.1 U	57.7 11	27.2	2	2		0 5
SELENIUM	0.52 U	0.57 U	0.56	0.52 11	0.62 11	0.12 11	0 13 11	0 12 11	- 110
SILVER	0.38 U	0.41 U	0.12 U	0 14 11	0 13 1	033 111	25.50	0.12.0	03211
SODIUM	69.3	57.8 U	982	31.4 U	34611	3	3	20.00	20.00
THALLIUM	0.64 U	0.7 U	1.2 U	0.88 U	0.80	0 14 11	0.16.11	0 15 11	11 77
NIL	2.1	2.2	1.6 U	14 U	1.6 U	3.2 U	L 4.4	33 U	4.8 .1
VANADIUM	1.3	26.0	1.2 J	0.78 ∪	0.7	1.8 J	14.	1.9	1.8.1
ZINC	3.7 J	38.2 J	3.3 J	4.8	2.0 U	2.4 UJ	2.8 J	3.3 J	3.4 J
Miscellaneous Parameters (mg/kg)									
SDI D Inomanics (unil)	0.61 U	0.66 U	0.56 U	0.64 U	0.63 U	J 60.0	0.13 J	0.17 J	0.15 J
ALIMINIM									
ANTIMONY									
ARSENIC									
BARIUM									
BERYLLIUM									
CADMIUM									
CALCIUM									
CHROMIUM									
COBALT									
COPPER									
IRON									
LEAD									
MAGNESIUM									
MANGANESE									
MERCURY									
NICKEL									
POTASSIUM									
SELENIUM									
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SWITH				2	17.63				
round	200003	200003	20000	CC, 14	56,14				
	TO COL	TOTAL SO DIT OF	1000	200004	Shoods		ZD9861	199502	1995Q2
	MPI-AC-SU-01	MPT-AC-SU-02	MPT-AC-SS03	MPT-AC-SS04	MPT-G4-B07		MPT-TC-MW06S	TCS00301	TCS00401
	MPT-AC-SU-01-05 MPT-AC-SU-02-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SU04-04	MPT-G4-SU-07-05		TCB00203	TCBOORD	TCB00403
	MPT-AC-SU-01-05	MPT-AC-SU-02-05	MPT-AC-SU03-04	MPT-AC-SHOW OF	MPT-G4-SI L07-05		TOPOGO	100000	1000000
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SILVER								000	600
SODIUM									
THALLIUM									
VANADIUM									
ZINIC									
Zillo									
Miscellaneous Parameters (mg/L)									
CYANIDE									
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order	001
site aoc	lc
ou	BLDG
swmu	BLDG
round	2000Q4
phase	
location	MPT-AC-SW01
nsample	MPT-AC-SD01-01
sample	MPT-AC-SD01-01
matrix	SD
depth_rang	0 - 1
gis_date	20001115
sample_dat	11/15/00
validated	<u>Y</u>
sort	c 001
Volatile Organics (ug/kg)	
1,1,1-TRICHLOROETHANE	7.1 U
1,1,2,2-TETRACHLOROETHANE	7.1 U
1,1,2-TRICHLOROETHANE	7.1 U
1,1-DICHLOROETHANE	7.1 U
1,1-DICHLOROETHENE	1.2 J
1,2-DICHLOROETHANE	7.1 U
1,2-DICHLOROPROPANE 2-BUTANONE	7.1 U 28 U
2-HEXANONE	28 U
4-METHYL-2-PENTANONE	28 U
ACETONE	28 U
BENZENE	7.1 U
BROMODICHLOROMETHANE	7.1 U
BROMOFORM	7.1 U
BROMOMETHANE	14 UJ
CARBON DISULFIDE	3.1 J
CARBON TETRACHLORIDE	7.1 U
CHLOROBENZENE	7.1 U
CHLORODIBROMOMETHANE	7.1 U
CHLOROETHANE	14 U
CHLOROFORM	7.1 U
CHLOROMETHANE CIS-1,2-DICHLOROETHENE	14 U
CIS-1,3-DICHLOROPROPENE	3.5 U 7.1 U
ETHYLBENZENE	7.1 U
METHYLENE CHLORIDE	7.1 U
STYRENE	7.1 U
TETRACHLOROETHENE	1.5 J
TOLUENE	7.1 U
TOTAL 1,2-DICHLOROETHENE	7.1 U
TOTAL XYLENES	7.1 U
TRANS-1,2-DICHLOROETHENE	3.5 U
TRANS-1,3-DICHLOROPROPENE	7.1 U
TRICHLOROETHENE VINYL CHLORIDE	7.1 U
Semivolatile Organics (ug/kg)	14 U
1,2,4-TRICHLOROBENZENE	420 U
1,2-DICHLOROBENZENE	420 U
1,3-DICHLOROBENZENE	420 U
1,4-DICHLOROBENZENE	420 U
2,2'-OXYBIS(1-CHLOROPROPANE)	420 U
2,4,5-TRICHLOROPHENOL	420 U
2,4,6-TRICHLOROPHENOL	420 U
2,4-DICHLOROPHENOL	420 U
2,4-DIMETHYLPHENOL	420 U
2,4-DINITROPHENOL	2100 U
2.4-DINITROTOLUENE	420 U
2,6-DINITROTOLUENE 2-CHLORONAPHTHALENE	420 U
2-CHLOROPHENOL	420 U 420 U
2-METHYLNAPHTHALENE	420 U
2-METHYLPHENOL	420 U
2-NITROANILINE	2100 U
2-NITROPHENOL	420 U
3,3'-DICHLOROBENZIDINE	2100 U
3-NITROANILINE	2100 U
4,6-DINITRO-2-METHYLPHENOL	2100 U
4-BROMOPHENYL PHENYL ETHER	420 U
4-CHLORO-3-METHYLPHENOL	420 U
4-CHLOROANILINE	420 U
4-CHLOROPHENYL PHENYL ETHER	420 U

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4-METHYLPHENOL	
4-NITROANILINE	420 U
	2100 U
4-NITROPHENOL	2100 U
ACENAPHTHENE	420 U
ACENAPHTHYLENE	420 U
ANTHRACENE	420 U
BENZO(A)ANTHRACENE	420 U
BENZO(A)PYRENE	420 U
BENZO(B)FLUORANTHENE	420 U
BENZO(G,H,I)PERYLENE	
BENZO(K)FLUORANTHENE	420 U
BIGG CHI ORGETHOWN	420 U
BIS(2-CHLOROETHOXY)METHANE	420 U
BIS(2-CHLOROETHYL)ETHER	420 U
BIS(2-ETHYLHEXYL)PHTHALATE	420 U
BUTYL BENZYL PHTHALATE	420 U
CARBAZOLE	420 U
CHRYSENE	420 U
DI-N-BUTYL PHTHALATE	420 U
DI-N-OCTYL PHTHALATE	420 U
DIBENZO(A,H)ANTHRACENE	420 U
DIBENZOFURAN	
DIETHYL PHTHALATE	420 U
DIMETHYL PHTHALATE	420 U
	420 U
FLUORANTHENE	420 U
FLUORENE	420 U
HEXACHLOROBENZENE	420 U
HEXACHLOROBUTADIENE	420 U
HEXACHLOROCYCLOPENTADIENE	2100 U
HEXACHLOROETHANE	420 U
INDENO(1,2,3-CD)PYRENE	420 U
ISOPHORONE	420 U
N-NITROSO-DI-N-PROPYLAMINE	420 U
N-NITROSODIPHENYLAMINE	420 U
NAPHTHALENE	
NITROBENZENE	420 U
PENTACHLOROPHENOL	420 U
PHENANTHRENE	420 U
	420 U
PHENOL	420 U
PYRENE	420 U
Pesticides/PCBs (ug/kg)	
4,4'-DDD	2.2 UJ
4,4'-DDE	2.2 U
4,4'-DDT	2.2 U
ALDRIN	2.2 U
ALPHA-BHC	2.2 U
ALPHA-CHLORDANE	2.2 U
AROCLOR-1016	42 U
AROCLOR-1221	42 U
AROCLOR-1232	42 U
AROCLOR-1242	
AROCLOR-1248	42 U
AROCLOR-1248	42 U
	42 U
AROCLOR-1260	42 U
BETA-BHC	2.2 U
DELTA-BHC	2.2 U
DIELDRIN	2.2 U
	2.2 0
ENDOSULFAN I	2.2 U
ENDOSULFAN II	
ENDOSULFAN I	2.2 U 2.2 U
ENDOSULFAN II	2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE	2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE)	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR	2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR	2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE	2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg)	2.2 U 2.2 U 4.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM	2.2 U 2.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY	2.2 U 2.2 U 4.2 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC	2.2 U 2.2 U 3.7 U 86 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM	2.2 U 2.2 U 3.7 U 86 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 3.17 J 0.55 U 0.98 2.4 J
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 3.17 J 0.55 U 0.98 2.4 J 0.03 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR HEPTACHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.5 U 2.5 U 2.5 U 2.6 U 2.7 U 2.8 U 2.9 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR HEPTACHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.5 U 2.5 U 2.5 U 2.6 U 2.7 U 2.8 U 2.9 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.5 U 2.5 U 2.7 U 2.8 U 2.9 U
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM COBALT	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 3.7 J 0.55 U 0.98 2.4 J 0.03 U 0.05 U 565 1.3 U 0.84
ENDOSULFAN I ENDOSULFAN II ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE GAMMA-BHC (LINDANE) GAMMA-CHLORDANE HEPTACHLOR HEPTACHLOR EPOXIDE METHOXYCHLOR TOXAPHENE Inorganics (mg/kg) ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM CHENDOSULFAN SULFATE ENDOSULFAN II ENDOSULFAN SULFATE ENDOSULFAN II ENDOSULFAN	2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.2 U 2.5 U 2.5 U 2.7 U 2.8 U 2.9 U

sed-SD full appendix results

IRON	493 J
LEAD	0.32
MAGNESIUM	35.6
MANGANESE	1.9
MERCURY	0.02 U
NICKEL	1,3
POTASSIUM	13.1 U
SELENIUM	0.55 U
SILVER	0.4 U
SODIUM	56.5 U
THALLIUM	0.68 U
VANADIUM	0.36 U
ZINC	1.2 U
Miscellaneous Parameters (mg/kg)	
CYANIDE	0.64 U

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order	- 0	2	2	4	9	9
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location	ZDC861	199502	200004	200004		1995Q2
Sample	2000	AOCC	MPT-AC-SS03	MPT-AC-SS04		MPT-TC-MW06S
sample	FPZ00101	FSZ00101	MP1-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
matrix	SO	os	SS	SS SS		I CSU0201
sacode	NORMAL	NORMAL	RMAL		NORMAL	NORMA
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Volatio Omanios (maltos)	c_001	c_002			c_007	c 008
1112-TETRACHI ODOETUANE						1
111.TBICHI OBOETUANE	0 6	5 U	6.8 UJ	6.5 UJ	5 U	0.9
1122-TETRACHI ODOETHANE	0:	5 U	0.8 ∪	6.5 U	9.0	η 9
1 1 2-TRICH OBOETHANE	0 6	5 0	6.8 U	6.5 U	0 S	0.9
1.1-DICHLOROETHANE	0 6	9 0	6.8 U	6.5 ∪	5 U	0.9
1.1-DICHLOROFTHENE	0 0	n c	0.8 C	6.5 ∪	5 U	N 9
1.2.3-TRICHI OROPROPANE	0 0	0 0	6.8 U	6.5 ∪	5 U	0.9
1.2-DIBROMO-3-CHI OROBBODANE	0 0	5.0	6.8 U	6.5 U	5 0	η 9
1.2-DIBROMOFTHANE	30	10 UJ	14 U	13 U	10 U	11 U
1.2-DICHI OROBENZENE	0 :	9.0	6.8 ∪	6.5 U	5 U	0.9
1.2-DICHLOROETHANE	0 6	9.0			5 U	η 9
1,2-DICHLOROPROPANE	0 =	0	0.8 U	6.5 U	5 U	Π 9
1,3-DICHLOROBENZENE	2 =	0 6	6.8 U	6.5 U	5 U	η 9
1,4-DICHLOROBENZENE	25.2				5.0	6 U
1,4-DIOXANE	200 R	200 B			5.0	0 9
2-BUTANONE	10 R	10 8	11 26	11 90	X 012	230 R
2-CHLOROETHYL VINYL ETHER	10 UJ	10 (1)	1 89	2 2 2	10 K	11.8
2-HEXANONE	10 U	10 U	27.	2 %	10.0	11 C
3-CHLOROPROPENE	5 U	5 U	14	2 = 2		0 11
4-CHLORO-3-METHYLPHENOL	O 099	U 099		2	340 11	0.9
4-MEI ITT-Z-PENI ANONE	10 U	10 U	27 U	26 U	10 1	360 0
ACETONITOR E	10 U	10 U	27 U	26 ∪	10 01	=======================================
ACROI FIN	100 UJ	100 UJ	140 UR	130 UR	100 U	110 -1
ACRYLONITRII F	0 001	100 U	140 UR	130 UR	100 UJ	110 (1.)
BENZENE	0 20	0 001	140 ∪	130 U	100 U	110 U
BROMODICHLOROMETHANE	2 =	0.0	0.8.0	6.5 ∪	5.0	η 9
BROMOFORM	0 =	0 1	0.8.9	6.5 U	5 U	η 9
BROMOMETHANE	101	0 6	0.8.0	6.5 U	5 U	Ω 9
CARBON DISULFIDE	5 -	2 4	0 4 0	13 0	10 U	11 U
CARBON TETRACHLORIDE	2 =	0 0	0.8 0	6.5 U	5 U	Π 9
CHLOROBENZENE		0	6.8 U	6.5 ∪	5 0	Λ9
CHLORODIBROMOMETHANE		0 6	0.89 U	6.5 U	5.0	N 9
CHLOROETHANE	100	0.5	0 2 3	6.5 U	5 U	Π 9
CHLOROFORM	5 5	0.01	14 U	13 U	10 U	11 U
CHLOROMETHANE	10 17	- 05		6.5 U	5.0	6 U
CHLOROPRENE	200 U	2000	0 4 0	13 0	10 U	11 0
CIS-1,2-DICHLOROETHENE		0 003	24 1	6.5 U.S	210 U	230 U
CIS-1,3-DICHLOROPROPENE	5 U	5 0	2 8 8	3.2 U		
DIBROMOMETHANE	5 U	n s	0.89	0 5 6	0 0	D 9
			2 22	0.50	0 c	D 9

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location	AOC C		MPT-AC-SS03	MPT-AC-SS04	MPT-TC-MW03S	MPT-TC-MW06S
nsample	FPZ00101		MPT-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
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sort	c_001	c_002	c 005		c 007	c 008
DICHLORODIFLUOROMETHANE	10 U	10 U	14 U	13 U	10 U	11 U
ETHYL METHACRYLATE	5 0	5 U	6.8 U	6.5 U	5 U	9 C
ETHYLBENZENE	0.5	2 0	6.8 U	0.5 U	0 S	6 U
ISOBUTANOL	200 R	200 R	270 UR	Z60 UR	210 R	230 R
METHACRYLONITRILE	5 0	5 U	6.8 U	6.5 U	5 U	6 U
METHYL IODIDE	10 U	10 U	6.8 U	6.5 U	10 U	11 U
METHYL METHACRYLATE	10 U	10 U	6.8 U	6.5 U	10 Ū	11 U
METHYL TERT-BUTYL ETHER			27 U	26 ∪		
METHYLENE CHLORIDE	5 U	5 U	4.5 J	4.6 J	5 U	2 J
PENTACHLOROETHANE	10 U	10 U			10 U	11 U
PROPIONITRILE	100 U	100 U	27 U	26 U	100 U	110 U
STYRENE	5 U	5 U	6.8 U	6.5 U	5 U	6 U
IETRACHLOROETHENE	5 U	5 U	6.8 U	6.5 U	5 U	0 9
TOTAL 4 2 DICHI ODGETHENE	n s	5.0	6.8 U	6.5 U	0.5	0 9
TOTAL 1,2-DIONICONE INCINE		000	0.8 0	0 2.0	0 0	0
TDANS 12 DICHI OBOETUENE	0 6	O G	0.8 0	0.00	0.6	0
TDANS 1 2 DICH ODODDODENE			2 4.0	3.2.0	4	-
TDANG 4 4 DICH COO 2 DITTENT	0 6	0.6	0 0	0.00	0.6	0 :
TRICH ORDETHENE	0 6	0 4	0.8 0	0.5 0	0 0	0.9
TRICHI OROFI LIOROMETHANE	0 =	0 =	0.0	0.30	0	
VINYL ACETATE	10.0		2 4	13 0	200	
VINYL CHLORIDE	10 U	10 U	14	13 [1	200	=======================================
Semivolatile Organics (ug/kg)						
1,2,4,5-TETRACHLOROBENZENE	3200 U	3200 U	J 360 U	350 U	1700 U	1800 U
1,2,4-TRICHLOROBENZENE	O 099	099 N	360 ∪	350 U	340 U	380 U
1,2-DICHLOROBENZENE			360 U	350 ∪		
1,2-DIPHENYLHYDRAZINE	O 099	0 099			340 U	380 U
1,3,5-TRINITROBENZENE	099 099	0 099	1800 U	1700 U	340 U	380 U
1,3-DICHLOROBENZENE			O96	350 U		
1,3-DINITROBENZENE	O 099	660 U	360 U	350 U	340 U	380 U
1,4-DICHLOROBENZENE			360 U	350 U		
1,4-DIOXANE			360 UJ	320 UJ		
1,4-NAPH HOUDINONE	66000 R	66000 R	18 0 0 U	1700 U	34000 R	38000 U
1.4-PHENYLENEDIAMINE	32000 UJ	32000 UJ	3600 U	3500 U	17000 UJ	18000 UJ
-INAPHI TALAMINE	3200 U	3200 U	360 U	350 U	1700 UJ	1800 UJ
2.4.4. TETBACHI OBODHENOI	0 099 0 099	0 099	360 U	350 U	340 ∪	380 ∪
2.4.5-TRICHI OROPHENOI	0 099	990 U	1800 U	1700 U	340 U	380 U
2,4,6-TRICHLOROPHENOL	660 11	2500	1 090	360 11	1/00 0	U 008L
2,4-DICHLOROPHENOL	O 099	n 099	360	350 11	340	380 0
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SOR	c_001				c 007	008
2,4-DIME I HYLPHENOL	099 O	O 099	09€	50 U	340 U	380 11
2,4-DINITROPHENOL	3200 UJ	3200 UJ	1800 U	1700 U	1700 U	1800 11
2.4-DINITROTOLUENE	D 099	O 099	360 U	350 U	340 ∪	380 11
2.9-DICHLUROPHENOL	099	099 n	360 ∪	350 U	340 UJ	380 111
2.4 CETYLAMINOELLIOPENIE	099 0	990 O	360 ∪	350 U	340 €	380 U
2-CHI ORONAPHTHAI ENE	660 UJ	660 UJ	3600 U	3500 U	340 UJ	380 UJ
2-CHLOROPHENO!	0 099	0 099	360 U	350 U	340 U	380 U
2-METHYLNAPHTHALENE	0 099	0 099	360 U	350 U	340 U	380 U
2-METHYLPHENOL	9 99 9	0 000	360 0	350 U	340 U	380 U
2-NAPHTHYLAMINE	3200 11	2200	200	350 0	340 U	380 U
2-NITROANILINE	3200 11	3200 0	360 0	350	1700 UJ	1800 UJ
2-NITROPHENOL	099	9200 0	360 0	0.00/1	1700 U	1800 U
2-PICOLINE	3200 U	3200 11	230	240 0	340 U	380 ∪
3&4-METHYLPHENOL	O 099	099	3		340 11	1800 U
3,3-DICHLOROBENZIDINE	1300 U	1300 U	1800 U	1700 13	20 000	360 0
3,3-DIME I HYLBENZIDINE	660 UJ	660 UJ	1800 UJ	1700 UJ	340 111	0.00/
S-METHYLCHOLANIHRENE	099 n	D 099	730 U	710 U	340	380 11
S-METHYLPHENOL			360 ∪	350 ∪		0.000
4 6 DINITIBO 2 METLY: DUTINO	3200 U	3200 U	1800 U	1700 U	1700 U	1800 11
4-AMINORIDHENY	3200 U	3200 U	1800 U	1700 U	1700 U	1800 1
4-BROMOPHENYI PHENYI ETHED	3200 U	3200 U	1800 U	1700 U	1700 UJ	1800 UJ
4-CHLORO-3-METHYLPHENOL	0 000	0 099	360 ∪	350 U	340 U	380 U
4-CHLOROANILINE	11 099		380 U	350 ∪		
4-CHLOROPHENYL PHENYL ETHER	1 099	0 099	360 U	350 U	340 U	O 08E
4-METHYLPHENOL	200	0 000	360 0	350 0	340 U	380 U
4-NITROANILINE	3200 U	3200 U	1800 (1	350 0	1700 11	
4-NI ROPHENOL	3200 U	3200 U	1800 U	1700 1	2002	U 008L
4-NI ROQUINOLINE-1-OXIDE	32000 UJ	32000 UJ	3600 U	3500 11	12000	0 0081
3-NI RO-C-I OLUIDINE	099 O	O 099	730 U	710 11	340 11	H 00081
1.12-DIMETHYLBENZ(A)ANTHRACENE	960 U	D 099	730 U	710 11	200	380 0
A.A-DIME I HYLPHENE THYLAMINE	3200 UJ	3200 UJ	1800 UJ	1700 UJ	1700 111	380 U
ACENAPHINEME	990 O	O 099	360 U	350 U	340	CD 008
ACETOPHENONE	0 099	0 099	360 U	350 U	340 U	380
ANILINE	0 099 0 0	099 O	360 U	350 U	340 U	380 11
ANTHRACENE	0 099	0 099	360 U	350 U	340 U	380 U
ARAMITE	3200 11	D 099	360 U	350 U	340 U	380 Ü
BENZIDINE	3200 11	3200	0.06/	710 U	1700 U	1800 U
BENZO(A)ANTHRACENE	660 11	0 0026			1700 U	1800 UJ
		0 000	300 0	320 0	340 U	380 ∪

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BENZO(A)PYRENE		G60 U	77 09	50 11	340 11	
BENZO(B)FLUORANTHENE	O 099	U 099	360 U	350 U	340 U	380 11
BENZO(G,H,I)PERYLENE	O 099	N 099	360 U	350 U	340 11.1	380 111
BENZO(K)FLUORANTHENE	099	ri 099	360 11	350 11	340 11	380
BENZOIC ACID	3200 11.1	3200 111			1700 11	1 000
BENZYL ALCOHOL	O 099	O 099	360 U	350 U	340 :	380 11
BIS(2-CHLOROETHOXY)METHANE	O 099	U 099	360 U	350 U	340 U	380 11
BIS(2-CHLOROETHYL)ETHER	099	O 099	360 ∪	350 ∪	340 U	380 11
BIS(2-ETHYLHEXYL)PHTHALATE	U 099	r 69	360 ∪	350 U	340 U	380 1
BUTYL BENZYL PHTHALATE	n 099	U 099	360 ∪	350 ∪	340 U	380 U
CARBAZOLE			360 U	350 U		
CHLOROBENZILATE	20 ∪	20 ∪	360 U	350 U	21 U	23 ∪
CHRYSENE	O 099	660 U	360 U	350 U	47 J	380 ∪
DI-N-BUTYL PHTHALATE	0 099	660 U	360 U	350 U	340 U	380 U
DI-N-OCTYL PHTHALATE	O 099	099 O	360 U	350 U	340 U	380 U
DIALLAIE	40 U	40 U	730 U	710 U	42 U	47 U
DIBENZO(A,H)ANI HKACENE	D 099	O 099	360 U	350 U	340 UJ	380 U
DIBENZOPUKAN	O 099	O 099	360 ∪	350 U	340 U	380 U
DIETHYL PHIHALATE	099	O 099	360 U	350 U	340 U	380 U
DINOSED	0 099	099 n	360 U	350 U	340 U	110 J
DIBUGNA AMAIR			730 U	710 U		
ETHYI METHANE SIII EONATE	000	000	360 U	350 U		
ELLIC MICHAEL SOLICION IC	0 099	0 099	D 096	350 U	340 U	380 U
FLUORENE	0 099	0 999 0 0	360 U	350 U	64 J	380 U
HEXACHI OROBENZENE	0 000	0 099	380 0	320 0	340 U	380 U
HEXACHLOROBUTADIENE	9 999	0 000	360 0	320 0	340 0	380 U
HEXACHLOROCYCLOPENTADIENE	9 333	0 000	1800	220 024	340 0	380 0
HEXACHLOROETHANE	U 099	n 099	360 U	350 1	340 1	380 0
HEXACHLOROPHENE	32000 R	32000 R			17000 111	2000
HEXACHLOROPROPENE	3200 UJ	3200 UJ	3600 ∪	3500 U	1700 (1	1800 111
INDENO(1,2,3-CD)PYRENE	O 099	U 099	360 ∪	350 ∪	340 UJ	380 11.1
SODRIN	0.68 U	0.68 U			0.7 U	0.78 U
SOPHORONE	960 U	099 O	360 U	350 U	340 ∪	380 U
ISOSAFROLE	3200 U	3200 U	730 U	710 U	1700 U	1800 U
METHY METHY OF TOWER	3200 UJ	3200 UJ	1800 UJ	1700 UJ	1700 UJ	1800 UJ
METATE METANE SULFONATE N-NITROSO-DI-N-RITXI AMINE	660 UJ	660 UJ	360 U	350 U	340 UJ	380 UJ
N-NITROSO-DI-N-PROPYLAMINE	0 099	0 099	360 U	350 U	340 U	380 U
N-NITROSODIETHYLAMINE	0 000	0 000	300 0	350 U	340 U	380 U
N-NITROSODIMETHYLAMINE	9 00 00	0 000	360 0	320 0	340 U	380 U
			200	2000	340 0	380 0



from newaocss_sam.dbf from newaocss_res.dbf from q:\sql_server\mayport\mpload

order	- (2	3	4	2	9
Par S	7		ي	U	<u>u</u>	<u>υ</u>
Disposition	199502	199502	200004	200004	1995Q2	1995Q2
ocamole ocamole	AUCC	Aocc	MPT-AC-SS03	MPT-AC-SS04	MPT-TC-MW03S	MPT-TC-MW06S
aidupsu	FPZ00101	FSZ00101	MPT-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
Semple	(FPZ00101	FSZ00101	MPT-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
operation of the same of the s	000	00	S	SS	SO	os
ton denth	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
bottom dep	- •	- •	2	0 1	-	<u> </u>
gis date	19950627	119950627	20004128	7	1	
sample dat	06/27/95	1990027	44/20/00	44/20/00	1995U531	19950531
validated		C6	00/07/11	00/97/11	28/15/GD	05/31/95
cto oro	900	2 0	- 0	-	Z	Z_
proj manag	HANSEN T	HANSEN T	O199	99L0	028	028
sort	c 001	C 002	C OOS	DANSEN, I	TANSEN, I	HANSEN, I
N-NITROSODIPHENYLAMINE	17 099	11 99	11 036	350 11	1000	2 008
N-NITROSOMETHYLETHYLAMINE	11 099	660 11	360 11	250	0.040	380 0
N-NITROSOMORPHOLINE	0 099	999	1 092	350 11	240	380 0
N-NITROSOPIPERIDINE	099	U 099	360 21	350 21	340 1	300 0
N-NITROSOPYRROLIDINE	O 099	099	360 11	350 11	240 1	2000
NAPHTHALENE	U 099	U 099	360 11	350 11	340 11	2000
NITROBENZENE	O 099	U 099	360 U	350 21	340 11	2000
O-TOLUIDINE	O 099	O 099	730 U	710 11	340 11	2000
P-(DIMETHYLAMINO)AZOBENZENE	U 099	U 099	730 1	710 11	340 11	2000
PENTACHLOROBENZENE	3200 U	3200 U	360 U	350 U	1700 11	1800 1
PENTACHLOROETHANE			1800 U	1700 U		0 000
PENTACHLORONITROBENZENE	3200 U	3200 U	1800 U	1700 U	1700 11	1800 11
PENTACHLOROPHENOL	3200 U	3200 U	1800 U	1700 U	1700 U	1800 1
PHENACETIN	099 n	U 099	730 U	710 U	340 !!	1 086
PHENANTHRENE	0 099	U 099	360 U	350 U	340 U	380
PHENOL	099 O	0 099	360 U	350 ∪	340 U	380 1
PRONAMIDE	099 O	660 U	730 U	710 U	340 ∪	380 U
PTRENE	O 099	660 U	09€	350 U	42 J	380 U
SAEBOLE	3200 U	3200 U	730 U	710 U	1700 U	1800 U
SILI FOTEBB	3200 U	3200 U	730 U	710 U	1700 UJ	1800 UJ
THIONAZIN			1800 U	1700 U		
Pesticides/PCBs (ug/kg)			1800 U	1700 U		
4.4-DDD	1.07	- 67				
4.4-DDE	1 890	0 8.1	0 6.	1.8 U	1.4 U	1.5 U
4,4'-DDT	13.5	2 2 2 2	5.0	1.8 U	0.7 U	0.78 U
ALDRIN	0.68 U	0 5:1	0 5 6	2 2	1.4 U	1.5 U
ALPHA-BHC	0.68 U	0.68 (1	0 = 0	0 0	0.70	0.78 U
ALPHA-CHLORDANE			1 6 6	0 4	0.7.0	0.78 U
AROCLOR-1016	33 U	33 U	1 98) = S	24 11	00
AROCLOR-1221	08 U	089	38	2 5	5 5 5	O ::
AROCLOR-1232	U 89	08 U	1 98	2 5	0.00	0.87
AROCLOR-1242	33 U	33.0	38 =	25 = 25	250	0.87
AROCLOR-1248	33 U	33 U	36 U	38	5	38 0
AROCLOR-1254	16 U	16 U	36 ∪	35 U	28 = 2	888
ARUCEUR-1280	16 U	16 U	36 U	35 U	25 J	2000
	1.3 U	1.3 U	J. 6.1	1.8 U	14.0	14.
CHLORDANE DELTA BLO	6.8 U	6.8 ∪			U Z	0.87
DELIA-BRO	0.68 U	0.68 U	1.9 U	1.8 U	U 2.0	1 87 0
FINDOSTILEAN	0.68 U	0.68 U	1.9 U	1.8 U	0.7 U	0 78 11
CINDOSOLLANI	0.68 U	0.68 U	1.9 U	1.8 U	0 1 U	1 82 0
					2	2.2.2

from newaocss_sam.dbf from newaocss_res.dbf from q:\sq_server\mayport\upload

order	- (N (m (4 (un (LD (
prior	199502	199502	20004	200004	199502	199502
Continu	ADC C	2000		MPT-AC-SSO4		MPT-TC-MW06S
ejamesu ejamesu	ED200404	ES200101	MPT AC SS03 01	MPT.AC.SSO4.01		TCS00201
samole	FF200101	FS200101		MPT-AC-SS04-01		TCS00201
matrix	08	OS.	SS	SS	SO	So
sacode	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
top_depth	_	_	0	0	-	-
bottom_dep	-	4	-	_	_	_
gis_date	19950627	19950627	20001128	20001128	19950531	19950531
sample_dat	06/27/95	06/27/95	11/28/00	11/28/00	05/31/95	05/31/95
validated	Z	z	> -	<u>>-</u>	z	z
cto_proj	028	028	0199	0199	028	028
proj manag	HANSEN,T	HANSEN.T	HANSEN,T	HANSEN,T	HANSEN,T	HANSEN,T
sort	c 001	c_002	c_005	c_006	c_007	c_008
ENDOSULFAN II	1.3 U	1.3 U	1.9 U	1.8 U	1.4 U	1.5 U
ENDOSULFAN SULFATE	1.3 U	1.3 U	1.9 U	1.8 U	1.4 U	1.5 U
ENDRIN	1.3 U	1.3 U	1.9 U	1.8 U	1.4 U	1.5 U
ENDRIN ALDEHYDE	1.3 U	1.3 U	1.9 U	1.8 U	1.4 U	1.5 U
ENDRIN KETONE	1.3 U	1.3 U	1.9 U	1.8 U	1.4 U	1.5 U
GAMMA-BHC (LINDANE)	0.68 U	U 89.0	U 6.1	1.8 U	0.7 U	0.78 U
GAMMA-CHLORDANE			1.9 U	1.8 U		
HEPTACHLOR	0.68 U	0.68 U	1.9 U	1.8 U	0.7 U	0.78 U
HEPTACHLOR EPOXIDE	0.68 U	0.68 U	1.9 U	1.8 U	0.7 U	0.78 U
ISODRIN			3.6 U	3.5 U		
KEPONE	40 UJ	40 UJ	36 ∪J	35 UJ	42 U	46 U
METHOXYCHLOR	2.7 U	2.7 U	3.6 U	3.5 U	2.8 U	3.1 U
TOXAPHENE	33 U	33 U	74 U	72 U	34 ∪	38 U
OrganoPhos Pesticides (ug/kg)						
DISTRICTOR			1800 U	35 ∪		
DISOLITORION			1800 C	35 U		
EINTLYAKAINION			1800 U	35 0		
METHY! DADATHION			1800 U	35 0		
O O O-TRIETHYL PHOSPHOROTHIOATE			1800 0	25.0		
PHORATE			1800 0	35 0		
SULFOTEPP			1800	2 5		
THIONAZIN			1800 U	35 U		
Herbicides (ug/kg)						
2,4,5-T			22 U	21 U		
2.4.5-IP (SILVEX)			22 U	21 U		
DINOSEB			88 U	98 U		
Inorganics (molke)			13 0	13 U		
ALIMINIM			1 367	- 33		
ANTIMONY	1 -	17	436 J	P88 7		
ARSENIC	0.12 U	0.12 11	0.40	0.55		0.2.1
BARIUM		0.37	2.7	800	3	n sen
BERYLLIUM	0.06 U	n 900	0 03 11	11 1	5	4.4
CADMIUM	0.24 U	0.24 11	1 50 0	200	1 36 0	U.09.0
CALCIUM			57300	12900	0 000	0.28
СНКОМІÚМ	0.54 J	0.66 J	2.2 J	2.7	2.4	
COBALT	0.62 U	0.62 U	0.23 U	0.22 U	0.64 U	0.72 U
COPPER	1.9 J	1.3 J	0.38 U	0.34 U	4.3 J	3.3 J
IKON TAD	- 55 0		899	1020		
TEAU.	0.28 J	0.92	0.62 J	13	16.4	3.6



ss-surface soil full appendix resutts

Order						
aoc	<u>- U</u>	<u>v 0</u>	<u>, U</u>	≠ ∪	a ()	<u>. U</u>
round	1995Q2	1995Q2		200004	1995Q2	199502
location	AOC C	AOC C	MPT-AC-SS03	MPT-AC-SS04	MPT-TC-MW03S	MPT-TC-MW06S
nsample	FPZ00101	FSZ00101	MPT-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
sample	FPZ00101	FSZ00101	r-AC-SS03-01	MPT-AC-SS04-01	TCS00301	TCS00201
matrix	SO	SO OS	SS		080	OS
top depth	NORWAL 1	NORMAL 1	NORMAL	NORMAL	NORMAL 1	NORMAL 1
bottom_dep) -		· -	
gis_date	19950627	19950627	20001128	•	19950531	19950531
sample_dat	06/27/95	06/27/95	11/28/00	/28/00	05/31/95	05/31/95
Validated Co. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr	N 028	N S	7	4	Z C	Z C
proj_manag	HANSEN,T	HANSEN,T	HANSEN.T	HANSEN.T	HANSEN.T	HANSEN
sort	c_001	c_002	c_005	c_006	c_007	2 008
MAGNESIUM			408	146		
MANGANESE			18.2	8.5		
MERCURY	0.03 UJ	0.03 UJ	0.02 U	0.02 U	0.03 U	0.03 U
NICKEL	1.1 U	1.1 U	0.56 U	0.31 U	2.1 J	1.3 U
POTASSIUM			67.7 U	55.5 U		
SELENIUM	0.1 U	0.1 U	0.44 U	0.43 U	. 0.1 ບ	0.12 U
SILVER	0.28 U	0.28 U	0.12 U	0.12 U	0.29 UJ	0.32 UJ
SODIUM			206	26.2 U		
HALLIUM	0.12 U	0.12 U	0.75 U	0.73 U	0.12 U	0.14 U
NIL	2.7 U	2.7 U	1.9 U	1.1 U	2.8 U	3.1 U
VANADIUM	0.3 J	0.7 J	1.9 J	1.5	4.3 J	3.3 J
ZINC	1.3 J	0.89 J	3.2 J	4.9	15.3	10.7
Miscellaneous Parameters (ug/kg)						
TO B Increased that I have	0.08 0	0.08 U	0.55 U	0.54 U	0.14 J	0.09 J
I CLT Indigance (mg/L)						
ANTIMONICA						
T NOW I TO N						
TANCONO						
DEDCKI I SECT						
CADMIIMT						
CALCRIME						
CHROMIUMT						
COBALTT						
COPPERT						
IRONT						
LEADT						
MAGNESIUMT						
MANGANESET						
MERCURYT						
NICKELT						
POTASSIUMT						
SELENIUMT						
SILVERT						
IHALLIUMI						
VANADIUMT						
ZINCI						

sssurface soil full appendix results

order	<u>_</u>	ω (.	9 (
punou	199502	199502	199502	199502
location	TCS00101	TCS00401	5	TCS00401
nsample				TCS00401-D
sample	100101	401	300401-AVG	TCS00401D
matrix		SO		SO
sacode	NORMAL	orig	AVG	DUP
top_depth	-	<u></u>	-	-
bottom_dep				-
gis_uate sample dat	19950531	19950531 0674706	19950531	19950531
validated				28/15/50
cto_proj				028
proj manag	HANSEN,T	HANSEN,T	SEN,T	HANSEN,T
sort				c_012
Volatile Organics (ug/kg)				
1.1.1.2-1E-INACHLOROE I MANE	0.6	0 :	0 9	9
1.1.1-I NICHLOROETHANE	0 0	0 0	6 U	D 9
1 1 2. TRICHI ORDETHANE	O C	0.0) (0)	9
1 1-DICHI ORDETHANE		0 0	0 :	٥
1.1-DICHLOROETHENE	2 =		0 =	
1,2,3-TRICHLOROPROPANE	5 0		0 =	0 9
1,2-DIBROMO-3-CHLOROPROPANE	11 0	11 0	= 1	-
1,2-DIBROMOETHANE	5 U	N 9	9 11	2 4
1,2-DICHLOROBENZENE	5 U	Πg	0 9	200
1,2-DICHLOROETHANE	5 U	Π9	N 9	0.9
1,2-DICHLOROPROPANE	5 U	0.9	0 9	0.9
1,3-DICHLOROBENZENE	5 U	0.9	0.9	9 N
1,4-DICHLOROBENZENE	5 U	6 U	0.9	6 U
1,4-DIOANNE	220 R	230 R	225 R	220 R
2-DUI OBOETUVI VANVI ETIJED	11 K	11 R	11 R	11 R
2-HEXANONE	0:	11 0	11 U	11 U
3-CHLOROPROPENE	0 LL	11 0	11 0	11 U
4-CHLORO-3-METHYLPHENOI	1 096	380	0.50	0 9
4-METHYL-2-PENTANONE	11 U	380 0	3/5 U	370 U
ACETONE	11 0	2 -		
ACETONITRILE	110 U	110 U	110 U	110 U
ACROLEIN	110 UJ	110 UJ	110 UJ	110 UJ
ACKYLONITRILE	110 U	110 U	110 U	110 U
BROWDDICHI OBOMETUANE	2 0	6 U	6 U	6 U
BROMOFORM	O W	0 9	D 9	0.9
BROMOMETHANE			9	0 9
CARBON DISULFIDE	2 2	0 =	11.0	11 0
CARBON TETRACHLORIDE	0 =		١٥٥	6 U
CHLOROBENZENE	200	0 4	0.9	0 9
CHLORODIBROMOMETHANE	5 U	200		0 9
CHLOROETHANE	11 U	11 0	11 =	7
CHLOROFORM	5 U	9	n 9	0.9
CHLOROME I HANE	11 U	11 U	11 U	11 U
CIS-12-DICHLOROFTHENE	220 U	230 U	225 U	220 U
CIS-1.3-DICHLOROPROPENE	-			
DIBROMOMETHANE	0 6	٥	0.0	0 U
	,	0 0	9 O	D 9



from newaocss_sam.dbf from newaocss_res.dbf from q:\sql_sepuer\mayport\upload

7 C C C 1995Q2 TCS00101 TCS00101	8 C 1995Q2	9 C 1995Q2	10 C 1995Q2
1995Q2 TCS00101 TCS00101	1995Q2	C 1995Q2	1995Q2
TCS00101	7000	20cs11	199502
TCS00101		T	
10100821	TCS00401		TCS00401
	TCS00401		TCS00401-D
TCS00101	TCS00401	300401-AVG	TCS00401D
os.	SO	80	80
NORMAL	ORIG	AVG	DUP
<u> </u>	-	<u>-</u>	-
-	-		·
19950531	19950531		19950531
05/31/95	05/31/95	/31/95	05/31/95
Z	z		Z
028	028		028
HANSEN,T	HANSEN,T	L'NII	HANSEN,T
- 1	c_010		c 012
11 Ü	11 0	11 U	11 U
5 (η 9	0.9	4
5 U	Ω 9	11 9	=
220 R	230 R	225 R	220 B
9.0	Π 9	6.11	11 627
11 0	11 0	1.0	2 7
11 0	11 0	7 = 7	
9.0	n 9	- 4	11.0
11 U	11 U	2 5	200
110 U	110 11	110	
5 U	71 9		0 2 2
0 S	0.9	19	0 =
5 U	2 9	7 9	200
5 U	η 9	0.9	
5 U	N 9	0.9	7
5 U	η 9	0.9	17. 9
5 U	Π 9	0.9	9
5 U	6 U	Π9	0 9
5 U	0 9	0 9	0 9
11 U	11 U	11 U	11 0
11.0	11 U	11 U	11 U
1100			
0 00/1	1800 U	1800 U	1800 U
0 000	380 0	375 U	370 U
360 U	11 086		
360 !!	2000	3/5 U	370 U
		3/3 0	370 U
360 U	380 U	375 11	- 010
			3/0 0
36000 R	38000 R	37500 B	37000 B
17000 UJ	18000 UJ	18000 11.1	18000 11
1700 UJ	1800 UJ	1800 UJ	1800 111
360 U	380 U	375 U	370 11
360 U	380 U	375 U	370 U
1/00 U	1800 U	1800 U	1800 U
360 U	380 U	375 U	370 U
360 0	380 U	375 U	370 U
	8 LANSEN,T 6,009 11 U 5 U 5 U 5 U 11 U 11 U 11 U 11 U 11 U 11 U 11 U 11 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5	5 U C 040 11 U C 040 11 U C 040 11 U I U I I U I I U I I I I I U I I I I	Name of the control

from newaocss_sam.dbf from newaocss_res.dbf from q:\sqLserver\mayport\upload

order	~ ′	80 (6 0 C	2
lround	199502	199502	199502	199502
location	TCS00101	TCS00401	0	TCS00401
nsample	TCS00101	TCS00401		TCS00401-D
sample	TCS00101	TCS00401	300401-AVG	TCS00401D
matrix	SO	SO		SO
sacode	NORMAL	ORIG	AVG	- and
top_depth		-		
bottom_dep	10060531	10050531	10050531	10050531
gis_date	19930331	19930331 05/31/95		05/31/95
do pro	028	028	90	028
proj manag	HANSEN,T	HANSEN,T	T,V=	HANSEN,T
sort	600 o	c_010		c_012
2,4-DIMETHYLPHENOL	360 U	380 U	375 U	370 U
2,4-DINITROPHENOL	1700 U	1800 U	U 0081	1800 U
2,4-DINITROTOLUENE	09E	380 ∪	375 U	370 U
2,6-DICHLOROPHENOL	360 UJ	380 UJ	375 UJ	370 UJ
2,6-DINITROTOLUENE	0 09E	380 U	375 U	370 U
2-ACETYLAMINOFLUORENE	360 UJ	380 UJ	375 UJ	370 UJ
2-CHLORONAPHTHALENE	360 U	380 U	375 U	370 U
2-CHLOROPHENOL	360 U	380 U	375 U	370 U
2-METHYLNAPHTHALENE	360 U	380 U	375 U	370 U
2-METHYLPHENOL	360 U	380 U	375 U	370 U
2-NAPHTHYLAMINE	1700 UJ	1800 UJ	1800 UJ	1800 UJ
2-NI TROANILINE	1700 U	1800 U	1800 U	1800 U
2-NI IROPHENOL	360 U	380 U	375 U	370 U
2-PICOLINE	1700 U	1800 U	1800 U	1800 U
SA-ME INTERNET	360 U	380 0	3/5 0	3/0 U
3.3-DICALOROBENZIOINE	0 02/	760 0	0 067	740 U
2.3-DUNELLY LEGINZIONE	360 00	380 03	3/5 UJ	3/0 UJ
3-METHY! PHEND!	0 000	380.0	3/3 (3/0 0
3-NITROANILINE	1700 []	1800 []	1800 11	11 0081
4.6-DINITRO-2-METHYLPHENOL	1700 11	1800 11	1800 21	1800
4-AMINOBIPHENYL	1700 UJ	1800 UJ	1800 (1)	1800 UJ
4-BROMOPHENYL PHENYL ETHER	360 U	380 U	375 U	370 U
4-CHLORO-3-METHYLPHENOL				
4-CHLOROANILINE	360 U	380 U	375 U	370 U
4-CHLOROPHENYL PHENYL ETHER	360 U	380 U	375 U	370 U
4-NITROANILINE	1700 []	1800 11	1800 11	1800 11
4-NITROPHENOL	1700 U	1800 U	1800 U	1800 U
4-NITROQUINOLINE-1-OXIDE	U 0001	18000 U	18000 U	18000 U
5-NITRO-O-TOLUIDINE	O 09E	380 U	375 U	370 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	O 09E	380 U	375 U	370 U
A,A-DIMETHYLPHENETHYLAMINE	LU 0071	1800 UJ	1800 UJ	1800 UJ
ACENAPHTHENE	360 U	380 U	375 U	370 U
ACENAPHTHYLENE	360 U	380 U	375 U	370 U
ACE I OPHENONE	360 U	380 U	375 U	370 U
ANTHRACENE	360 U	380 U	375 U	370 U
ARAMITE	1700 []	380 0	375 U	370 U
BENZIDINE	1700 []	1800 1	2 000	2000
BENZO(A)ANTHRACENE	130 J	51 J	57.5	2 28
			2 212	,

from newaocss_sam.dbf from newaocss_res.dbf from q:\sql_se_er_ermayport\upload

order		∞ (6	10
	ပ	υ	υ_	ပ
Lonud	199502	1995Q2	1995Q2	1995Q2
location	TCS00101	TCS00401	TCS00401	TCS00401
nsample	TCS00101	TCS00401	TCS00401-AVG	TCS00401-D
sample	TCS00101	TCS00401		TCS00401D
matrix	SO	SO		So
sacode	NORMAL	ORIG	AVG	DUP
top_depth	•	-	Į.	-
pottom_dep	•	-		-
gis_date	19950531	19950531	_	19950531
sample_dat	05/31/95	05/31/95	5/31/95	05/31/95
validated	z	Z		Z
cto_proj	028	028	028	028
proj manag	HANSEN,T	HANSEN,T	EN,T	HANSEN,T
sort		c_010	c_011	c 012
BENZO(A)PYRENE	180 J	380 U	82 J	82 J
BENZO(B)FLUORANTHENE	230 J	380 ∪	100 1	1.001
BENZO(G,H,I)PERYLENE	85 J	380 UJ	375 UJ	370 111
BENZO(K)FLUORANTHENE	230 J	380 11	110 1	110 -
BENZOIC ACID	1700 U	1800 1)	1800 11	1800
BENZYL ALCOHOL	360 U	380 11	375	370 11
BIS(2-CHLOROETHOXY)METHANE	360 U	380 U	375 11	320 77
3IS(2-CHLOROETHYL)ETHER	360 U	380 U	375 11	370 11
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	380 U	375 U	11 028
BUTYL BENZYL PHTHALATE	360 U	380 U	375 U	370 11
SARBAZOLE				
CHLOROBENZILATE	22 U	45 U	45 U	45 U
CHRYSENE	210 J	£9 J	76.5 J	f 06
DI-N-BUTYL PHTHALATE	360 U	380 N	375 U	370 ∪
DI-N-OCTYL PHTHALATE	360 U	380 U	375 U	370 U
DIRECTOR	44 U	91 U	90.5 U	D 06
DIBERIZO(A, II)ANI ITRACENE	360 UJ	380 UJ	375 UJ	370 UJ
METICAL DISTURING	360 U	380 U	375 U	370 U
DIMETRY DITTINA AT	360 U	380 U	375 U	370 U
DINOSEB	360 U	380 U	375 U	370 U
DIPHENYI AMINE				
ETHY! METHANE SIII FONATE	11 000			
EL LIONANTHENE	360 0	380 0	375 U	370 U
FLUORENE	5000	110 J	120 J	130 J
HEXACHLOROBENZENE	0 000	380 0	375 U	370 U
HEXACHLOROBUTADIENE	2000	0 086	375 U	370 U
HEXACHLOROCYCLOPENTADIENE	360 11	0 000	3/5 U	370 U
HEXACHLOROETHANE	360 U	1 086	375 U	3/0 0
HEXACHLOROPHENE	17000 UJ	18000 111	373 0	370 0
HEXACHLOROPROPENE	1700 U	1800 11	1800 11	19000 03
INDENO(1,2,3-CD)PYRENE	87 J	380 11	375 111	1800 0
SODRIN	0.74 U	15 11	15.03	3/0 00
SOPHORONE	360 U	380 U	375	0 6:1
ISOSAFROLE	1700 U	1800 U	1800 11	1 000
IE IHAPYRILENE	1700 UJ	1800 UJ	1800 UJ	1800 1.1
METHYL METHANE SULFONATE	360 UJ	380 UJ	375 UJ	370 111
N-NITROSO-DI-N-BUTYLAMINE	360 U	380 ∪	375 U	370 11
NITEOSO-DI-N-PROPYLAMINE	360 U	380 U	375 U	370 U
N-MITROSODIMETHIS AMAN	360 U	380 U	375 U	370 U
- IN LAWINE	360 U	380 U	375 U	370 U

from newaocss_sam.dbf from newaocss_res.dbf from q:\sql_server\mayport\upload

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Lonuq	199502	199503	10000	C
location	TCS00101	TCS00401	1995UZ	199502
nsample	TCS00101	TCS00401	TCS00401-AVG	TCS00401-D
sample	TCS00101	TCS00401	TCS00401-AVG	TCS00401D
matrix	SO	80	so	SO
Sacode Con Apple	NORMAL	ORIG	AVG	DUP
	-	-	_	
Dandin_dep				
Sanole dat	19950531	19950531	19950531	19950531
	05/31/85	05/31/95		05/31/95
cto oroi	2 0	z		z
proi manao	UZS HANSEN T	2028		028
sort	, 000	ITANOEN, I	EN, I	HANSEN,T
N-NITROSODIPHENYI AMINE				c 012
N-NITROSOMETHYI ETHYI AMINE	0.005	300 0	375 U	370 U
N-NITROSOMORPHOLINE	11 098	0.000	3/5 U	370 U
N-NITROSOPIPERIDINE	360	300 0	3/5 U	370 U
N-NITROSOPYREO INVE	0 000	380 0	375 U	370 U
NAPHTHAI ENE	0 000	380 U	375 U	370 Ú
NITROBENZENE	0 000	380 U	375 U	370 U
O-TOI LIIDINE	0 000	380 0	375 U	370 U
P-(DIMETHY) AMINO\AZOBENIZENIE	360 U	380 U	375 U	370 U
PENTACHI OBORENZENE	360 U	380 U	375 U	370 U
PENTACH! OPOETHANE	0 00/1	1800 U	1800 U	1800 U
DENTACHI ODONITBORENIZENE				
DENTACH ODODIENO	1700 U	1800 U	1800 U	1800 U
PHENACETINI	1700 U	1800 U	1800 U	1800 U
DHENANTUBENE	360 U	380 U	375 U	370 U
PHENOL	71 J	57 J	57 J	370 U
PRONAMINE	360 U	380 U	375 U	370 U
DVDENE	360 U	380 U	375 U	370 U
DVDINE	220 J	67 J	76.5 J	86 J
SAFEDOLE	1700 U	1800 U	1800 U	1800 U
SUI FOTEBB	1700 U	1800 UJ	1800 UJ	1800 UJ
THIONAZIN				
Pesticides/PCBs (ua/ka)				
4,4'-DDD	14			
4.4-DDE	24.70	3.0	2.95 U	2.9 U
4,4-DDT	- 47	2.3	2.15	2
ALDRIN	0.74 []	2	2.95 U	2.9 U
ALPHA-BHC	0.74 U	2 -	100	1.5 U
ALPHA-CHLORDANE			0 6:1	1.5 U
AROCLOR-1016	36 U	75 U	74.5 U	74 11
AROCLOR-1221	74 U	150 U	150 U	150 11
ARUCLUR-1232	74 U	150 U	150 0	150 0
AROCLOR-1242	36 U	75 U	74 5 11	190 0
AROCLOR-1248	36 U	75 U	745 11	74 0
AROCLOR-1254	19 U	39 Ú	38.5 U	39 7
BETA-BHC	160	170	160	150
CHLORDANE	1.4 U	3.0	2.95 U	2.9 U
DELTA-BHC	12	93	92	91
DIELDRIN	0.74 0	1.5 U	1.5 U	1.5 U
ENDOSULFANI	0.74 0	1.5 U	1.5 U	1.5 U
	0 \$1.0	U ¢.L	1.5 U	1.5 U



from newaocss_sam.dbf from newaocss_res.dbf from q:\sql_sepver\mayport\upload

order	~ (80 (6	10
	200	ر ر	١	ن
Lonua	1995Q2	1995Q2		1995Q2
location	TCS00101			TCSD0401
nsample	TCS00101			TCS00401-D
sample	TCS00101	TCS00401	TCS00401-AVG	TCS00401D
matrix	00			SO
sacode	NORMAL	ORIG		DUP
tap_depth	<u>-</u>	<u>-</u>	-	-
bottom_dep	~	<u>-</u>	-	-
gis_date	19950531	19950531	_	19950531
sample_dat	05/31/95	05/31/95	05/31/95	05/31/95
validated	z	Z	z	z
cto_proj	028	028		028
proj manag	HANSEN,T	L'A	HANSEN,T	HANSEN,T
sort	600°°	c_010		ı
ENDOSULFAN II	1.4 U	3.0	2.95 U	
ENDOSULFAN SULFATE	1.4 U	3 U	2.95 U	2.9 U
ENDRIN	1.4 U	3.0	2.95 U	29 U
ENDRIN ALDEHYDE	1.4 U	3 U	2.95 U	29 U
ENDRIN KETONE	1.4 U	3.0	2.95 U	2.9 U
GAMMA-BHC (LINDANE)	0.74 U	1.5 U	1.5 U	1.5 U
GAMMA-CHLORDANE				
HEPTACHLOR	0.74 U	1.3 J	1.25 J	1.2 J
HEPTACHLOR EPOXIDE	0.74 U	8.7	8.8	8.9
SODRIN				
KEPONE	44 U	91 U	90.5 U	∩ 06
METHOXYCHLOR	3 U	6.1 U	6.1 U	6.1 U
TOXAPHENE	36 Ü	75 U	74.5 U	74 U
OrganoPhos Pesticides (ug/kg)				
DISTRICTOR				
DISOLITION WHEN THE PROPERTY OF THE PROPERTY O				
EINTE PARA I HON				
MATHER DATE TO ST.				
MEINTL PARA I HION				
O'O'O'-I RIE I HYL PHOSPHOROTHIOATE				
FICKALE				
SULFO EPP				
INCOME.				
2.4 E.T.				
2.4,3-1 2.4.5.TD (SII VEX)				
24-D				
DINOSEB				
norganics (mg/kg)				
ALUMINUM				
ANTIMONY	1111	12 11	4 45 111	
ARSENIC	- 2	0 2:1	o	1.1 03
BARIUM	567	0.30 0.3	0.46 00	0.34 (J)
BERYLLIUM	7 80 0	1 210	3.0.0	3.4 J
САДМІЦМ	0.44	2.50	0.0775	0.07 0
CALCIUM		00000	0.273 0	0.27 U
CHROMIUM	12.8	66	9.2	
COBALT	L 97.0	071.11	1.302.0	L L.2
COPPER	σ. «	2000	0.007.0	0.7.0
IRON		2	2.33 3	- A
LEAD	21.5	7.2	R 25	60
			0.50	3.0

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sssurface soil full appendix results

- e pro-e				
	~ C	20 (<u> </u>	2 (
punou	199502	1995.02	199503	1000
location	TCS00101	TCS00401	TCS0401	1993UZ TC500404
nsample	TCS00101	TCS00401	TCS00401-4V6	TCS00401-D
sample	TCS00101	TCS00401	TCS00401-AVG	TCS00401D
matrix	OS	SO	OS	James US
sacode	NORMAL	ORIG	AVG	and
top_depth	-	-	<u></u>	
bottom_dep	<u>-</u>	,-	-	-
gis_date	19950531	19950531	19950531	19950531
sample_dat	05/31/95	05/31/95	05/31/95	05/31/95
validated	z	Z	z	Z
cto_proj	028	028	028	028
pro manag	HANSEN,T	HANSEN,T	HANSENT	HANSEN.T
sort	c 000	c_010	c 011	c 012
MAGNESIUM				
MANGANESE				
MERCURY	0.03 U	0.03 U	0.0255	0.03
NICKEL	3.6 J	13.0	1 225 .1	18 1
POTASSIUM				
SELENIUM	0.11 U	0.2 J	0.1275 J	0 11 11
SILVER	0.31 UJ	0.32 UJ	111 650	0.35
SODIUM			200	20.30.
THALLIUM	0.13 U	0.14 11	0.14.11	0.44
TIN	3.0	57.1	3 626 1	2
VANADIUM	5.4 J	1 66	- 40	0 - 0
ZINC	48.2	10.6	10.15	5.7.3
Miscellaneous Parameters (ug/kg)				9:6
CYANIDE	0.11 J	0.12 J	0.135	0.15
TCLP Inorganics (mg/L)				200
ALUMINUMT				
ANTIMONYT				
ARSENICT				
BARIUMT				
BERYLLIUMT				
CADMIUMT				
CALCIUMT				
CHROMIUMT				
COBALTT				
COPPERT				
IRONT				
LEADI				
MAGNESIUMT				
MANGANESET				
MERCURYT				
NICKELT				
POTASSIUMT				
SELENIUMT				
SILVERT				
THALLIUMT				
VANADIUMT				
ZINGI				



sw -SW full appendix results

order	001
site	007
aoc	c
ou	BLDG
swmu	
round	2000Q4
location	MPT-AC-SW01
nsample sample	MPT-AC-SW01-01
matrix	MPT-AC-SW01-01
sacode	SW NORMAL
depth_rang	-9999
gls_date	20001115
sample_dat	11/15/00
validated	Y
cto_proj	0199
proj_manag sort	HANSEN,T
Volatile Organics (ug/L)	c_001
1,1,1,2-TETRACHLOROETHANE	4.0
1,1,1-TRICHLOROETHANE	1 U
1,1,2,2-TETRACHLOROETHANE	1 0
1,1,2-TRICHLOROETHANE	1 0
1,1-DICHLOROETHANE	1 U
1,1-DICHLOROETHENE	1 U
1,2,3-TRICHLOROPROPANE	1 U
1,2-DIBROMO-3-CHLOROPROPANE 1,2-DIBROMOETHANE	1 U
1,2-DICHLOROETHANE	1 0
1,2-DICHLOROPROPANE	1 U
2-BUTANONE	10 U
2-CHLOROETHYL VINYL ETHER	100
2-HEXANONE	10 U
3-CHLOROPROPENE	1 UJ
4-METHYL-2-PENTANONE	10 U
ACETONE ACETONITRILE	10 U
ACROLEIN	20 UR
ACRYLONITRILE	10 UR 10 U
BENZENE	1 0 0
BROMODICHLOROMETHANE	1.9
BROMOFORM	1 U
BROMOMETHANE	2 UJ
CARBON TETRACHI ORIDE	1 U
CARBON TETRACHLORIDE CHLOROBENZENE	1 U
CHLORODIBROMOMETHANE	1 U 0.98 J
CHLOROETHANE	1 U
CHLOROFORM	3.9
CHLOROMETHANE	1 0
CHLOROPRENE	1 U
CIS-1,2-DICHLOROETHENE	0.5 U
CIS-1,3-DICHLOROPROPENE DIBROMOMETHANE	1 U
DICHLORODIFLUOROMETHANE	1 U
ETHYL METHACRYLATE	1 U
ETHYLBENZENE	1 U
ISOBUTANOL	50 UR
METHACRYLONITRILE	1 U
METHYL IODIDE	1 0
METHYL METHACRYLATE	1 U
METHYL TERT-BUTYL ETHER	5 U
METHYLENE CHLORIDE PROPIONITRILE	1 Ü
STYRENE	4 UR
TETRACHLOROETHENE	1 U
TOLUENE	1 U
TOTAL 1,2-DICHLOROETHENE	10
TOTAL XYLENES	1 0
TRANS-1,2-DICHLOROETHENE	0.5 U
TRANS-1,3-DICHLOROPROPENE	1 U
TRANS-1,4-DICHLORO-2-BUTENE	1 U
TRICHLOROETHENE	1 U
TRICHLOROFLUOROMETHANE /INYL ACETATE	2 U
/INYL CHLORIDE	1 U
emivolatile Organics (ug/L)	1 U
1,2,4,5-TETRACHLOROBENZENE	10 U
,2,4-TRICHLOROBENZENE	10 U

from newaocsw_res.dbf from newaocsw_res.xls from q:\sql_server\mayport\upload

sw -SW full appendix results

order site acc ou swmu round location nsample MPT-AC-SW01-01 sample MPT-AC-SW01-01 sample MPT-AC-SW01-01 sample MPT-AC-SW01-01 sample MPT-AC-SW01-01 sample MPT-AC-SW01-01 sample MPT-AC-SW01-01 swaccode depth_rang gis_date 20001115 supple depth_rang gis_date 2001115 supple depth_rang gis_date 200	order	
SOC OU SHUDG SHUDG SHUDG SWMUN FOUND SWMUN FOUND FOUND SWMUN FOUND SWMUN FOUND SWMUN FOUND SWMUN SWM		001
QU Sample Sampl	site	
OU SWITTUT OU OU OU OU OU OU OU	aoc	lc
Swmu Cound	ou	1 -
round		DEDG
location MPT-AC-SW01-01 msample MPT-AC-S		
Nample		2000Q4
Sample MPT-AC-SW01-01	location	MPT-AC-SW01
Sample	nsample	MPT-AC-SW01-01
matrix sacode depth_rang sacode depth_rang sample_dat validated va	sample	
Sacode		
depth_rang .9999		1
gls_date		NORMAL
Sample_dat	depth_rang	-9999
Sample_dat	gls_date	20001115
validated Y cto_proj 0199 proj_manag HANSEN,T sort c_001 1.2-DICH_OROBENZENE 10 U 1.3-DICH_OROBENZENE 10 U 1.3-DINITROBENZENE 10 U 1.4-DIOKANE 10 U 1.4-DIOXANE 10 U 1.4-PIOXANE 10 U 1.4-PIENYLENEDIAMINE 10 U 2.2-OXYBIS(1-CHLOROPROPANE) 10 U 2.3-LAS-TEIRCHLOROPHENOL 10 U 2.3-LAS-TEIRCHLOROPHENOL 10 U 2.4-S-TRICHLOROPHENOL 10 U 2.4-DINITROTOLUENO 25 U 2.4-DINITROTOLUENE 10 U 2.4-DINITROTOLUENE 10 U 2.5-DICHLOROPHENOL 10 U 2.6-DICHLOROPHENOL 10 U 2.6-DICHLOROPHENOL 10 U 2.6-DINITROTOLUENE 10 U 2.6-DICHLOROPHENOL 10 U	sample dat	
CIO_PRO 0199	• =	
Proj. manag		1.
1,2-DICHLOROBENZENE		0199
1.2-DICHLOROBENZENE 10 UJ 1.3-DICHLOROBENZENE 10 UJ 1.3-DICHLOROBENZENE 10 U 1.3-DICHLOROBENZENE 10 U 1.3-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-PHENYLENEDIAMINE 10 UJ 1.4-PHENYLENEDIAMINE 10 UJ 1.4-PHENYLENEDIAMINE 10 UJ 1.4-PHENYLENEDIAMINE 10 UJ 1.4-PHENYLENEDIAMINE 10 UJ 2.2-OXYBIS(1-CHLOROPHENOL 10 U 2.3-4.5-TRICHLOROPHENOL 10 U 2.4-5-TRICHLOROPHENOL 10 U 2.4-5-TRICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DINITROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.5-DICHLOROPHENOL 10 U 3.3-DICHLOROPHENOL proj_manag	HANSEN,T	
1.2-DICHLOROBENZENE 10 UJ 1.3-DICHLOROBENZENE 10 UJ 1.3-DICHLOROBENZENE 10 U 1.3-DICHLOROBENZENE 10 U 1.3-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-NAPHTHOQUINONE 10 U 1.4-PHENYLENEDIAMINE 10 UJ 1-NAPHTHYLAMINE 10 U U 1-NAPHTHYLAMINE 10 U U 2.2-OXYBIS(1-CHLOROPRENOL 10 U U 2.3.4-S-TRICHLOROPHENOL 10 U U 2.4-S-TRICHLOROPHENOL 10 U U 2.4-S-TRICHLOROPHENOL 10 U U 2.4-DICHLOROPHENOL 10 U U 2.4-DICHLOROPHENOL 10 U U 2.4-DICHLOROPHENOL 10 U U 2.4-DICHLOROPHENOL 10 U U 2.5-DICHLOROPHENOL 10 U U 2NETHYLPHENOL 10 U U 2NETHYLPHENOL 10 U U 2NETHYLPHENOL 10 U U 2NITROPHENOL 10 U U 2NITROPHENOL 10 U U 2NITROPHENOL 10 U U 2NITROPHENOL 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 3.3-DICHLOROBENZIDINE 10 U U 4-BROMOPHENYL PHENYL ETHER 10 U U 4-BROMOPHENYL PHENYL ETHER 10 U U 4-BROMOPHENYL PHENYL ETHER 10 U U 4-CHLORO-3-METHYLPHENOL 25 U U 4-MITROPHENOL 10 U U 4-CHLORO-3-METHYLPHENOL 10 U U 4-CHLORO-3-METHYLP	sort	c 001
1,3-DICHLOROBENZENE	1.2-DICHLOROBENZENE	
1.3-DICHLOROBENZENE 10 U 1.3-DINTROBENZENE 10 U 1.3-DINTROBENZENE 10 U 1.4-DICHLOROBENZENE 10 U 1.4-PIENYLENEDIAMINE 10 U 1.4-PIENYLENEDIAMINE 10 U 1.4-PIENYLENEDIAMINE 10 U 1.4-PIENYLENEDIAMINE 10 U 1.4-PIENTROHOROPHENOL 10 U 1.4-STRICHLOROPHENOL 10 U 1.4-STRICHLOROPHENOL 10 U 1.4-STRICHLOROPHENOL 10 U 1.4-DICHLOROPHENOL 10 U 1.4-DICHLOROPHENOL 10 U 1.4-DINITROPHENOL 10 U		
1.3-DINITROBENZENE		10 UJ
1.4-DICHLOROBENZENE 10 U 1.4-DIOXANE 10 U 1.4-PHENYLENEDIAMINE 10 U 1.4-PHENYLENEDIAMINE 10 U 1.4-PHENYLENEDIAMINE 10 U 2.2-OXYBIS(1-CHLOROPROPANE) 10 U 2.3-4.6-TETRACHLOROPHENOL 10 U 2.3-4.5-TRICHLOROPHENOL 10 U 2.4-5-TRICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DICHLOROPHENOL 10 U 2.4-DIMETHYLPHENOL 10 U 2.4-DIMETHYLPHENOL 10 U 2.4-DINITROPHENOL 10 U 2.4-DINITROPHENOL 10 U 2.4-DINITROPHENOL 10 U 2.4-DINITROTOLUENE 10 U 2.6-DICHLOROPHENOL 10 U 2.6-DICHLOROPHENOL 10 U 2.6-DINITROTOLUENE 10 U 2.6-DINITROTOLUENE 10 U 2-CHLORONAPHTHALENE 10 U 2-CHLORONAPHTHALENE 10 U 2-CHLOROPHENOL 10 U 2-METHYLPHENOL 10 U 2-METHYLPHENOL 10 U 2-METHYLPHENOL 10 U 2-METHYLPHENOL 10 U 2-MITROANILINE 25 U 2-NIPROANILINE 25 U 2-NIPROANILINE 25 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3-METHYLPHENOL 1		10 U
1.4-DICHLOROBENZENE	1,3-DINITROBENZENE	10 U
1.4-DIOXANE 10 U 1.4-NAPHTHOQUINONE 10 U 1.4-NAPHTHOQUINONE 10 U 1.4-NAPHTHOQUINONE 10 U 1.4-PHENYLENEDIAMINE 10 U 1.4-PHENYLENEDIAMINE 10 U 2.2-OXYBIS(1-CHLOROPROPANE) 10 U 2.2-OXYBIS(1-CHLOROPHENOL 10 U 2.3.4.6-TERRACHLOROPHENOL 10 U 2.4.5-TRICHLOROPHENOL 10 U 2.4.5-TRICHLOROPHENOL 10 U 2.4-5-TRICHLOROPHENOL 10 U 2.4-DINITROPHENOL 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 2.5-DINITROPHENOL 10 U 3.3-DIDICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DINITROPHENOL 10 U 3.3-DINITROPHENOL 10 U 3.3-DINITROPHENOL 10 U 4.5-DINITROPHENOL 10 U 4.5-DIN	1,4-DICHLOROBENZENE	
1.4-NAPHTHOQUINONE		
1.4-PHENYLENEDIAMINE		
1-NAPHTHYLAMINE		
2.2-OXYBIS(1-CHLOROPROPANE)		10 UJ
2,2-OXYBIS(1-CHLOROPROPANE)	1-NAPHTHYLAMINE	
2.3.4.6-TETRACHLOROPHENOL		
2.4,5-TRICHLOROPHENOL		
2.4.9-TRICHLOROPHENOL		
2.4-DICHLOROPHENOL 10 U 2.4-DIMETHYLPHENOL 10 U 2.4-DINTROPHENOL 25 U 2.4-DINTROPHENOL 25 U 2.4-DINTROPHENOL 10 U 2.5-DICHLOROPHENOL 10 U 2.5-DICHLOROPHENOL 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-DINITROTOLUENE 10 U 2.5-CHLORONAPHTHALENE 10 U 2.5-CHLOROPHENOL 10 U 2.5-METHYLNAPHTHALENE 10 U 2.5-METHYLPHENOL 10 U 2.5-METHYLPHENOL 10 U 2.5-NITROPHENOL 10 U 3.5-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DICHLOROBENZIDINE 10 U 3.3-DIMETHYLBENZIDINE 10 U 3.3-DIMETHYLBENZIDINE 10 U 3.3-METHYLPHENOL 10 U 3.NITROANILINE 25 U 4.5-DINITRO-2-METHYLPHENOL 25 U 4.5-DINITRO-2-METHYLPHENOL 10 U 4-CHLORO-3-METHYLPHENOL 10 U 4-CHLORO-3-METHYLPHENOL 10 U 4-CHLOROPHENYL PHENYL ETHER 10 U 4-CHLOROPHENYL PHENYL ETHER 10 U 4-CHLOROPHENYL PHENYL ETHER 10 U 4-CHLOROPHENYL PHENYL ETHER 10 U 4-CHLOROPHENYL PHENYL ETHER 10 U 4-NITROQUINOLINE 25 U 4-NITROQUINOLINE 10 U 4-NITROQUINOLINE-1-OXIDE 10 UJ 5-NITRO-O-TOLUIDINE 10 U U 5-NITRO-O-TOLUIDINE 10 U 5-NITR		10 U
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BENZO(B)FLUORANTHENE	ANTHRACENE ARAMITE	10 U
BENZO(G,H,I)PERYLENE	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE	10 U 10 U
BENZO(G,H,I)PERYLENE 10 U BENZO(K)FLUORANTHENE 10 U BENZYL ALCOHOL 10 U BIS(2-CHLOROETHOXY)METHANE 10 U BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE	10 U 10 U
BENZO(K)FLUORANTHENE 10 U BENZYL ALCOHOL 10 U BIS(2-CHLOROETHOXY)METHANE 10 U BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE	10 U 10 U 10 U
BENZYL ALCOHOL 10 U BIS(2-CHLOROETHOXY)METHANE 10 U BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE	10 U 10 U 10 U 10 U
BIS(2-CHLOROETHOXY)METHANE 10 U BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE	10 U 10 U 10 U 10 U 10 U
BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE	10 U 10 U 10 U 10 U 10 U 10 U
BIS(2-CHLOROETHYL)ETHER 10 U	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE	10 U 10 U 10 U 10 U 10 U 10 U
	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZYL ALCOHOL BIS(2-CHLOROETHOXY)METHANE	10 U 10 U 10 U 10 U 10 U 10 U
	ANTHRACENE ARAMITE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZYL ALCOHOL BIS(2-CHLOROETHOXY)METHANE	10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U

sw -SW full appendix results

order	001
site	1.
aoc	C
ou	BLDG
swmu	l
round	2000Q4
location Insample	MPT-AC-SW01
•	MPT-AC-SW01-01
sample matrix	MPT-AC-SW01-01
Isacode	sw
depth_rang	NORMAL
igis date	-9999
sample_dat	20001115
validated	11/15/00 Y
cto proj	0199
proj_manag	HANSEN,T
sort	c_001
BUTYL BENZYL PHTHALATE	10 U
CARBAZOLE	10 U
CHLOROBENZILATE	10 U
CHRYSENE	10 U
DI-N-BUTYL PHTHALATE	10 U
DI-N-OCTYL PHTHALATE	10 U
DIALLATE	20 U
DIBENZO(A,H)ANTHRACENE	10 U
DIBENZOFURAN	10 U
DIETHYL PHTHALATE	10 U
DIMETHYL PHTHALATE	10 U
DINOSEB	20 U
DIPHENYLAMINE	10 U
ETHYL METHANE SULFONATE	10 U
FLUORANTHENE	10 U
FLUORENE	10 U
HEXACHLOROBENZENE	10 U
HEXACHLOROBUTADIENE	10 U
HEXACHLOROCYCLOPENTADIENE	10 U
HEXACHLOROETHANE	10 U
HEXACHLOROPROPENE	10 U
INDENO(1,2,3-CD)PYRENE	10 U
ISOPHORONE ISOSAFROLE	10 U
METHAPYRILENE	10 U
METHYL METHANE SULFONATE	10 UJ
N-NITROSO-DI-N-BUTYLAMINE	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U 10 U
N-NITROSODIETHYLAMINE	10 U
N-NITROSODIMETHYLAMINE	10 U
N-NITROSODIPHENYLAMINE	10 U
N-NITROSOMETHYLETHYLAMINE	10 U
N-NITROSOMORPHOLINE	10 U
N-NITROSOPIPERIDINE	10 U
N-NITROSOPYRROLIDINE	10 0
NAPHTHALENE	10 U
NITROBENZENE	10 U
O-TOLUIDINE	10 U
P-(DIMETHYLAMINO)AZOBENZENE	10 U
PENTACHLOROBENZENE	10 U
PENTACHLOROETHANE	50 U
PENTACHLORONITROBENZENE	10 U
PENTACHLOROPHENOL	10 U
PHENACETIN	10 U
PHENANTHRENE	10 U
DUENO	40.41
PHENOL	10 U
PRONAMIDE	10 U
PRONAMIDE PYRENE	10 U 10 U
PRONAMIDE PYRENE PYRIDINE	10 U 10 U 10 U
PRONAMIDE PYRENE PYRIDINE SAFROLE	10 U 10 U 10 U 10 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP	10 U 10 U 10 U 10 U 50 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN	10 U 10 U 10 U 10 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L)	10 U 10 U 10 U 10 U 50 U 50 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD	10 U 10 U 10 U 10 U 50 U 50 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD	10 U 10 U 10 U 10 U 50 U 50 U 0.05 UJ 0.05 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD 4,4'-DDE 4,4'-DDE 4,4'-DDT	10 U 10 U 10 U 10 U 50 U 50 U 0.05 UJ 0.05 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD 4,4'-DDE 4,4'-DDT ALDRIN	10 U 10 U 10 U 10 U 10 U 50 U 50 U 0.05 U 0.05 U 0.05 U 0.05 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD 4,4'-DDE 4,4'-DDT ALDRIN ALPHA-BHC	10 U 10 U 10 U 10 U 50 U 50 U 50 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD 4,4'-DDE 4,4'-DDT ALDRIN ALPHA-BHC ALPHA-CHLORDANE	10 U 10 U 10 U 10 U 50 U 50 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
PRONAMIDE PYRENE PYRIDINE SAFROLE SULFOTEPP THIONAZIN Pesticides/PCBs (ug/L) 4,4'-DDD 4,4'-DDE 4,4'-DDT ALDRIN ALPHA-BHC	10 U 10 U 10 U 10 U 50 U 50 U 50 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U

sw -SW full appendix results

Torston	
order site	001
laoc	c
ou	BLDG
swmu	
round	2000Q4
location insample	MPT-AC-SW01
sample	MPT-AC-SW01-01
matrix	MPT-AC-SW01-01
sacode	NORMAL
depth_rang	-9999
gis_date	20001115
sample_dat	11/15/00
validated cto_proj	Y
proj_manag	0199 HANSEN,T
sort	C 001
AROCLOR-1232	1 U
AROCLOR-1242	1 0
AROCLOR-1248	1 Ü
AROCLOR-1254 AROCLOR-1260	1 U
BETA-BHC	1 U
DELTA-BHC	0.05 U 0.05 U
DIELDRIN	0.05 U
ENDOSULFAN I	0.05 U
ENDOSULFAN II	0.05 U
ENDOSULFAN SULFATE ENDRIN	0.05 U
ENDRIN ALDEHYDE	0.05 U
ENDRIN KETONE	0.05 U 0.05 U
GAMMA-BHC (LINDANE)	0.05 U
GAMMA-CHLORDANE	0.05 U
HEPTACHLOR	0.05 U
HEPTACHLOR EPOXIDE ISODRIN	0.05 U
KEPONE	0.1 UJ
METHOXYCHLOR	1 UJ 0.1 U
TOXAPHENE	2 U
OrganoPhPesticides (ug/L)	
DIMETHOATE	1 U
DISULFOTON ETHYL PARATHION	1 U
FAMPHUR	1 0
METHYL PARATHION	1 U
0,0,0-TRIETHYL PHOSPHOROTHIOATE	1 0
PHORATE	1 U
SULFOTEPP THIONAZIN	1 U
Herbicides (ug/L)	1 U
2,4,5-T	1 0
2,4,5-TP (SILVEX)	10
2,4-D	4 U
DINOSEB	0.6 U
norganics (ug/L) ALUMINUM	
ANTIMONY	18.8 U
ARSENIC	4.3 U 3.6 U
BARIUM	21.6
BERYLLIUM	0.2 U
CADMIUM	0.4 U
CALCIUM	36400
CHROMIUM COBALT	2.5 U
COPPER	2.2 U
IRON	1.9 U 122 U
LEAD	1.3 U
MAGNESIUM	10800
MANGANESE	12.1 U
MERCURY	0.1 U
NICKEL POTASSIUM	1.9 U
SELENIUM	2100
BILVER	4.3 U 3.1 U
SODIUM	8950
THALLIUM	5.3 U
TIN	2.8 U
/ANADIUM	1.4 U

sw -SW full appendix results

order	001
site	
aoc	lc I
ou	BLDG
swmu	
round	2000Q4
location	MPT-AC-SW01
nsample	MPT-AC-SW01-01
sample	MPT-AC-SW01-01
matrix	lsw
sacode	NORMAL
depth_rang	-9999
gis_date	20001115
sample_dat	11/15/00
valldated	ly l
cto_proj	0199
proj_manag	HANSEN,T
sort	c_001
ZINC	7.4 U
Miscellaneoeous Parameters (ug/L)	
CYANIDE	19.1

APPENDIX C AREAS AND VOLUMES OF CONTAMINATED MEDIA

TABLE C - 1
AOC C, AREA AND VOLUME - CONTAMINATED GROUNDWATER¹
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

Locations	Porosity ²	Saturated Soil Thickness ³ feet	Calculated Area	Volume
Area around monitoring well MPT-EP-DPW02I	0.35	20	7850	411,055
Area around monitoring well MPT-AC-GW-DPW09I	0.35	20	7850	411,055
TOTALS			15,700	822,109

Notes:

¹ Refer to Figure 3-4 for additional information regarding the impacted groundwater area.

² Porosity values used in calculating the volume(s) of contaminated groundwater were taken from Brady, Nyle C., Ray R. Weil, 1996. The Nature and Properties of Soils.

Therefore, it was determined that the saturated soil thickness to be used in this calculation is 20 ft (from bls), intermediate (30-35 ft bls), and deep (45-50 ft bls) groundwater zones were free of contamination. 3 Per laboratory analysis, it was determined that monitoring wells screened across the shallow (3-13 ft 20 to 40 ft bis)

APPENDIX D COST ESTIMATES

Table D - 1

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 1: NO ACTION
CAPITAL COSTS

CAPITAL COSTS				Section and the second						
		F		Unit Cost			Extended Cost	ost		
Cost Item	Quantity	C Liit	Subcontract	Material	Labor Equipment	Subcontract	Material	Labor	Equipment	Subtotal
1 PROJECT PLANNING 1.1 Prepare Corrective Measures Implementation Plan										
Project Manager	0	녿			\$40.12	0\$	0\$	0 \$	0 \$	9
Senior Technical Staff	0	녿			\$32.52	OS.	S _s	\$	%	⊗
Technical Staff	0	Ĕ			\$26.44	O\$	0\$	%	90	9
Senior Support Staff ODCs (copying, shipping, telephone, etc.) 1.2 Project Scheduling and Procurement	00	F s		\$200.00	\$20.22	G G	0\$	9 9	0\$ \$0	& &
Project Manager	0	Ĕ			\$40.12	⊗	O\$	O#	%	3
Senior Support Staff	0	ž			\$20.22	9	0 \$	%	9	9
Subcontractor Support Staff	0	Ĕ			\$18.52	0 \$	0 \$	0\$	S _F	9
2 LAND USE CONTROLS 2.1 Construction & Installation										
Crew and Equipment	0	볻	\$89.84			05	%	9	%	9
Land Use Control Signage 2.2 Site Survey	0	68		\$19.79		9	S _s	S	3	S
Crew and Equipment		¥.	\$108			S	0\$	OS	S	O\$
Site Sulvey Heport 2.3 Modify Master Plan	00	ls hours	\$500		\$34.33	& &	S S	& &	S S	0 0
Subtotal Direct Capital Costs less Subcontract							0\$	9	O\$	%

B 엻

8

G & A on Labor Cost @ 10.16% G & A on Material Cost @ 10.16%

Table D - 1

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 1: NO ACTION
CAPITAL COSTS

				Unit Cost				Extended Cost	St		
Cost Item	Quantity	Unit	Subcontract	Material	Labor Eq	Equipment	Subcontract	Material	Labor	Equipment	Subtotal
Total Direct Capital Cost								O\$	S.	Ç,	S.
Overhead on Total Direct Labor Cost @ 97.93% Award Fee on Total Direct Cost @ 10%	97.93% 10%								8	ļ	0\$ \$0
Subtotal											0 \$
Health & Safety Monitoring (including subcontractor cost) @ 3% Health & Safety Training, Site-specific Training	3%										0\$ \$\$
Total Field Cost							3				9
Subtotal Subcontractor Cost							0\$				O\$
G & A on Subcontract Cost @ 1.6%	.6%						90				90
Award Fee on Subcontractor Cost @ 10%	10%									l	\$0
Subcontractor Cost											S
Contingency on Total Field and Subcontractor Costs @ 10%	% 01										0\$
TOTAL Capital COST											9

Assumptions: No additional groundwater sampling would be performed. Land use controls would be implemented. No maintenance would be performed.

Table D - 2

Navai Station (NS), Mayport Mayport, FLORIDA AOC C GROUNDWATER ALTERNATIVE 1: NO ACTION OPERATION AND MAINTENANCE COSTS

OPERATION AND MAINTENANCE COSTS						
			Unit	Labor	Total	
Cost item	Quantity	Unit	Cost ^a	Overhead ^a	Cost	Comments
1 FIVE YEAR SITE REVIEW 1.1 Site Review Meeting						
Project Manager	0	hr	\$40.12	\$39.29	\$0	
Senior Technical Staff	0	hr	\$32.52	\$31.85	\$0	
ODCs (travel, review meetings, public notice in newspaper, copies, etc.) 1.2 Prepare Review Report	o	is	\$1,000.00		\$0	
Project Manager	0	hr	\$40.12	\$39.29	\$0	
Senior Technical Staff	0	hr	\$32.52	\$31.85	\$0	
Technical Staff	0	hr	\$26.44	\$25.89	\$0	
Senior Support Staff ODCs (photocopies, telephone, etc.)	0	hr is		\$19.80	\$0 \$0	
Subtotal Review Cost					\$0	
G&A and Award Fee @ 20.16% Subtotal					\$0 \$0	
Total Review Cost					\$0	
2 LAND USE CONTROL MONITORING (FOR 30 YEAR PO 2.1 Annual Site Inspections	ERIOD)					
Technical Staff ODCs (fuel, telephone, etc.) 2.2 Annual Review and Report	0	hr is		\$25.89	\$0 \$0	
Project Manager Senior Technical Staff	0	hr hr	•	\$39.29 \$31.85	\$0 \$0	
ODCs (photocopies, telephone, etc.)	0	is	\$400.00		\$0	
Subtotal Land Use Control Monitoring					\$0	
G&A and Award Fee @ 20.16% Subtotal					\$0 \$0	
Total Land Use Control Monitoring Cost	:				\$0	

^a Includes overhead on professional labor @ 97.93%.

Assumptions: Travel associated with quaterly inspections will be limited as inspections will be done by base personnel and handled on a local level.

Table D - 3

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 1: NO ACTION
PRESENT WORTH ANALYSIS

Present	Worth	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$	\$0	%	\$	\$0	\$0	\$0	\$0	0\$	%	\$0	%	\$0	\$0	\$0	\$0	\$0
Present-Worth	Factor (I = 5%)	1.000	0.952	0.907	0.864	0.823	0.784	0.746	0.711	0.677	0.645	0.614	0.585	0.557	0.530	0.505	0.481	0.458	0.436	0.416	0.396	0.377	0.359	0.342	0.326	0.310	0.295	0.281	0.268	0.255	0.243	0.231
Total Yearly	Cost	\$0	%	%	%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	%	\$0	\$0	\$0	%	%	%	\$0	\$0	%	\$0	%	\$0	\$ 0	%	\$0
Operation and	Maintenance Cost		%	80	\$0	\$0	\$0	\$0	\$ 0	\$ 0	\$ 0	80	%	\$0	\$0	\$0	\$0	%	%	%	\$0	\$ 0	%	%	%	\$	\$0	%	%	\$0	\$0	&
Capital	Cost	\$0																														
, , , , , , , , , , , , , , , , , , ,	Year	0	-	8	က	4	S.	9	7	80	6	9	Ξ	12	1 3	4	15	16	17	18	19	50	77	82	23	24	25	56	27	58	59	ဓ

\$0

TOTAL PRESENT WORTH

Table D - 4

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 2: LAND USE CONTROLS AND MONITORING
CAPITAL COSTS

CAPITAL COSTS										
				Unit Cost	П		Extended Cost	Cost		
Cost Item	Quantity	Unit	Subcontract	Material	Labor Equipment	Subcontract	Material	Labor	Equipment	Subtotal
1 PROJECT PLANNING 1.1 Prepare Corrective Measures Implementation Plan										
Project Manager	00	Ĕ			\$40.12	\$	9	\$321	9	\$321
Staff Engineer	40	녿			\$34.33	9	\$	\$1,373	%	\$1,373
Senior Support Staff	16	Ĕ			\$20.22	0\$	9	\$324	%	\$324
Suport Staff ODCs (copying, shipping, telephone, etc.) 1.2 Project Scheduling and Procurement	8	F s		\$200.00	\$18.52	09 99 99	\$0 \$200	\$148 \$0	0 5 0 5	\$148 \$200
Project Manager	4	Ĕ			\$40.12	9	9	\$160	9	\$160
Support Staff	9	Ĕ			\$18.52	0\$	9	\$111	%	\$111
Subcontractor Support Staff	9	Ĕ			\$18.52	S	3	\$111	\$	\$111
2 LAND USE CONTROLS 2.1 Construction & Installation										
Crew and Equipment	60	호	\$89.84			\$719	S	8	9	\$719
Land Use Control Signage 2.2 Site Survey	9	69		\$19.79		9	\$317	3	O\$	\$317
Crew and Equipment Site Survey Report 2.3 Modify Master Plan	8 - 8	hr Is hours	\$108 \$500		\$34.33	\$866 \$500	0 , 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	\$0 \$0 \$2,746	<u> </u>	\$866 \$500 \$2,746
Subtotal Direct Capital Costs less Subcontract							\$517	\$5,295	S _s	\$5,812

\$538

\$538

G & A on Labor Cost @ 10.16% G & A on Material Cost @ 10.16%

Table D - 4

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 2: LAND USE CONTROLS AND MONITORING
CAPITAL COSTS

ATINECOSIS				I lait Coet			Extended Cost	Cost		
Cost Item	Quantity	Ę.	Subcontract	Material	Labor Equipment	Subcontract	Material	abor	Equipment	Subtotal
Total Direct Capital Cost							\$569	\$5,833	S#	\$6,402
Overhead on Total Direct Labor Cost @ 97.93% Award Fee on Total Direct Cost @ 10%	97.93% 10%							\$5,712	1	\$5,712 \$640
Subtotal										\$12,754
Health & Safety Monitoring (including subcontractor cost) @ 3% Health & Safety Training. Site-specific Training	% E									\$445 \$445
Total Field Cost										\$13,645
Subtotal Subcontractor Cost						\$2,085				\$2,085
G & A on Subcontract Cost @ 1.6%	1.6%					\$33				\$33
Award Fee on Subcontractor Cost @ 10%	10%								ļ	\$208
Subcontractor Cost										\$2,327
Contingency on Total Field and Subcontractor Costs @ 10%	10%								ļ	\$1,597
TOTAL Capital COST										\$17,568

Assumptions: No additional groundwater sampling would be performed. Land use controls would be implemented. No maintenance would be performed.

Table D - 5

aval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 2: LAND USE CONTROLS AND MONITORING
ANNUAL OPERATION AND MAINTENANCE COSTS

	TOAL OFERATION AND MAINTENANCE COSTS	· ·		l Inia I	Tabas 1	Tat-1	<u>-</u>
	Cost Item	Quantity	Unit	Unit Cost ^a	Labor Overhead ^a	Total Cost	Comments
	IVE YEAR SITE REVIEW I Site Review Meeting						
	Project Manager	8	hr	\$40.12	\$39.29	\$635	
	Senior Technical Staff	16	hr	\$32.52	\$31.85	\$1,030	
1.2	ODCs (travel, review meetings, public notice in newspaper, copies, etc.) 2 Prepare Review Report	1	ls	\$1,000.00		\$1,000	
	Project Manager	16	hr	\$40.12	\$39.29	\$1,271	
	Senior Technical Staff	40	hr	\$32.52	\$31.85	\$2,575	
	Technical Staff	12	hr	\$26.44	\$25.89	\$628	
	Senior Support Staff ODCs (photocopies, telephone, etc.)	16 1	hr Is	\$20.22 \$800.00	\$19.80	\$640 \$800	
	Subtotal Review Cost					\$8,579	
	G&A and Award Fee @ 20.16% Subtotal					\$1,729 \$10,308	
	Total Review Cost					\$10,306	
	AND USE CONTROL MONITORING (FOR 30 YEAR PE I Annual Site Inspections	RIOD)					
2.2	Technical Staff ODCs (fuel, telephone, etc.) 2 Annual Review and Report	4	hr Is	\$26.44 \$500.00	\$25.89	\$209 \$500	
	Project Manager Senior Technical Staff	12 12	hr hr	\$40.12 \$32.52	\$39.29 \$31.85	\$953 \$772	
	ODCs (photocopies, telephone, etc.)	1	is	\$400.00		\$400	
	Subtotal Land Use Control Monitoring					\$2,835	
	G&A and Award Fee @ 20.16% Subtotal					\$571 \$3,406	
	Total Land Use Control Monitoring Cost					\$3,406	
	ROUNDWATER MONITORING (FOR 30 YEAR PERIOD Maintenance/Repair of monitoring wells))					
2.2	Technical Staff ODCs (locks, caps, well pad) 2 Sampling of wells (18 wells)	4	hr Is	\$26.44 \$100.00	\$25.89	\$209 \$100	
	Technical Staff Junior Technical Staff	30 30	hr hr	\$26.44 \$22.24	\$25.89 \$21.78	\$1,570 \$1,321	
2.4 2.3	ODCs (field equipment and supplies) 4 Analysis of Samples (8 wells + 2 QA/QC samples) 5 Monitoring Report	1 10	ls ea	\$800.00 \$100.00		\$800 \$1,000	
	Senior Technical Staff Technical Staff Support Staff	16 24 8	hr hr hr	\$32.52 \$26.44 \$18.52	\$31.85 \$25.89 \$18.14	\$1,030 \$1,256 \$293	

Table D - 5

Navai Station (NS), Mayport Mayport, FLORIDA AOC C GROUNDWATER ALTERNATIVE 2: LAND USE CONTROLS AND MONITORING ANNUAL OPERATION AND MAINTENANCE COSTS

			Unit	Labor	Total	
Cost Item	Quantity	Unit	Cost ^a	Overhead ^a	Cost	Comments
ODCs (photocopies, telephone, etc.)	1	Is	\$400.00		\$400	
Subtotal Monitoring Groundwater (year 1)					\$19,916	
years 2 - 5					\$11,958	
years 6 - 30					\$7,979	
G&A and Award Fee @ 20.16% (year 1)					\$4,015	
years 2 - 5					\$2,411	
years 6 - 30					\$1,609	
Subtotal					\$23,931	
Total Groundwater Monitoring Cost (year 1)					\$23,931	
Total Groundwater Monitoring Cost (years 2 - 5)					\$14,369	
Total Groundwater Monitoring Cost (year 6 - 30)					\$9,588	

^a includes overhead on professional labor @ 97.93%.

Assumptions:

⁻ Groundwater monitoring will be conducted quarterly for for the first year, semi-annually for years 2 - 5 and annuall - Monitoring reports will be submitted after each sampling event. Two reports will be submitted each of the first two years and one report annually there after. The additional monitoring report for the first two years will cost an

Table D - 6

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 2: LAND USE CONTROLS AND MONITORING
PRESENT WORTH ANALYSIS

\$17,568	Capital	Operation and	Total Yearly	Present-Worth	Present	Γ
\$27,338 \$27,338 1.000 \$17,775 \$17,755 0.952 \$17,775 \$17,775 0.967 \$16,617 \$26,925 0.784 \$11,836 \$11,836 0.711 \$11,836 \$11,836 0.645 \$11,836 \$11,836 0.645 \$11,836 \$11,836 0.645 \$11,836 \$11,836 0.645 \$11,836 \$11,836 0.505 \$11,836 \$11,836 0.481 \$11,836 \$11,836 0.436 \$11,836 \$11,836 0.436 \$11,836 \$11,836 0.436 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.336 \$11,836 \$11,836 0.336 \$11,836 \$11,836 0.336 \$11,836 \$11,836 0.342 \$11,836 \$11,836 0.342 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.295 \$11,836 \$11,836 0.243 \$11,836 \$11,836 0.243 \$11,836 \$11,836 0.243	Cost	Maintenance Cost	Cost	Factor (i = 5%)	Worth	
\$27,338 \$27,338 0.952 \$17,775 \$17,775 0.907 \$16,617 \$16,617 0.864 \$11,61 \$26,925 0.784 \$11,836 \$11,836 0.711 \$11,836 \$11,836 0.645 \$11,836 \$11,836 0.505 \$11,836 \$11,836 0.505 \$11,836 \$11,836 0.505 \$11,836 \$11,836 0.505 \$11,836 \$11,836 0.458 \$11,836 \$11,836 0.4481 \$11,836 \$11,836 0.436 \$11,836 \$11,836 0.436 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.326 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.225 \$11,836 \$11,836 0.226 \$11,836 \$11,836 0.223 \$11,836 \$11,836 0.223 \$11,836 \$11,836 0.223 \$11,836 \$11,836 0.223 \$11,836 \$11,836 0.223	\$17,568		\$17,568	1.000	\$17,568	
\$16,617 \$16,617 \$16,617 \$26,925 \$12,994 \$11,836 \$11,83	•	\$27,338	\$27,338	0.952	\$26,036	
\$16,617 0.864 \$16,617 0.823 \$26,925 0.784 \$11,836 0.711 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.614 \$11,836 0.639 \$11,836 0.396 \$11,836 0.326 \$11,836 0.326 \$11,836 0.326 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268 \$11,836 0.268		\$17,775	\$17,775	0.907	\$16,122	
\$16,617 \$26,925 \$12,994 \$11,836 \$11		\$16,617	\$16,617	0.864	\$14,354	
\$26,925 \$12,994 \$11,836 \$11,836 \$22,925 \$11,836 \$11		\$16,617	\$16,617	0.823	\$13,671	
\$12,994 0.746 \$11,836 0.677 \$11,836 0.645 \$22,925 0.614 \$11,836 0.557 \$11,836 0.557 \$11,836 0.505 \$11,836 0.396 \$11,836 0.377 \$11,836 0.326 \$11,836 0.326 \$11,836 0.326 \$11,836 0.326 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.2281 \$11,836 0.2281 \$11,836 0.2281 \$11,836 0.2281 \$11,836 0.225 \$11,836 0.2281 \$11,836 0.225 \$11,836 0.225 \$11,836 0.225 \$11,836 0.225		\$16,617	\$26,925	0.784	\$21,097	
\$11,836 \$11,836 \$11,836 \$11,836 \$22,925 \$11,836 \$12,925 \$13,836 \$13,83		\$12,994	\$12,994	0.746	\$9,696	
\$11,836 \$11,836 \$22,925 \$11,836 \$12,925 \$13,836 \$13,83		\$11,836	\$11,836	0.711	\$8,412	
\$11,836 0.645 \$22,925 0.614 \$11,836 0.557 \$11,836 0.505 \$22,925 0.481 \$11,836 0.486 \$11,836 0.436 \$11,836 0.396 \$11,836 0.342 \$11,836 0.326 \$11,836 0.326 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255 \$11,836 0.255		\$11,836	\$11,836	0.677	\$8,011	
\$22,925 \$11,836 \$12,925 \$13,836 \$13,83		\$11,836	\$11,836	0.645	\$7,630	
,836 \$11,836 0.585 ,836 \$11,836 0.557 ,836 \$11,836 0.505 ,836 \$11,836 0.481 ,836 \$11,836 0.458 ,836 \$11,836 0.416 ,836 \$11,836 0.396 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243		\$11,836	\$22,925	0.614	\$14,074	
,836 \$11,836 0.557 ,836 \$11,836 0.505 ,836 \$22,925 0.481 ,836 \$11,836 0.458 ,836 \$11,836 0.436 ,836 \$11,836 0.396 ,836 \$11,836 0.359 ,836 \$11,836 0.342 ,836 \$11,836 0.226 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243		\$11,836	\$11,836	0.585	\$6,920	
,836 \$11,836 0.530 ,836 \$11,836 0.505 ,836 \$11,836 0.481 ,836 \$11,836 0.436 ,836 \$11,836 0.396 ,836 \$11,836 0.359 ,836 \$11,836 0.342 ,836 \$11,836 0.342 ,836 \$11,836 0.295 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$11,836 0.243		\$11,836	\$11,836	0.557	\$6,591	
,836 \$11,836 0.505 ,836 \$22,925 0.481 ,836 \$11,836 0.436 ,836 \$11,836 0.416 ,836 \$11,836 0.396 ,836 \$11,836 0.359 ,836 \$11,836 0.342 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$22,925 0.295 ,836 \$11,836 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.530	\$6,277	
,836 \$22,925 0.481 ,836 \$11,836 0.458 ,836 \$11,836 0.416 ,836 \$11,836 0.396 ,836 \$11,836 0.359 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$22,925 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.505	\$2,978	
,836 \$11,836 0.458 ,836 \$11,836 0.416 ,836 \$11,836 0.396 ,836 \$11,836 0.377 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$11,836 0.243 ,836 \$22,925 0.243 ,836 \$21,836 \$22,925		\$11,836	\$22,925	0.481	\$11,027	
,836 \$11,836 0.436 ,836 \$11,836 0.416 ,836 \$22,925 0.377 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.295 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$22,925 0.243 ,836 \$11,836 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.458	\$5,422	
,836 \$11,836 0.416 ,836 \$21,836 0.396 ,836 \$22,925 0.377 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.436	\$5,164	
,836 \$11,836 0.396 ,836 \$22,925 0.377 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$22,925 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.416	\$4,918	
,836 \$22,925 0.377 ,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.268 ,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$22,925 0.243		\$11,836	\$11,836	0.396	\$4,684	
,836 \$11,836 0.359 ,836 \$11,836 0.326 ,836 \$11,836 0.326 ,836 \$22,925 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.255 ,836 \$11,836 0.243		\$11,836	\$22,925	0.377	\$8,640	
,836 \$11,836 0.342 ,836 \$11,836 0.310 ,836 \$22,925 0.295 ,836 \$11,836 0.268 ,811,836 0.268 ,811,836 0.255 ,836 \$11,836 0.255 ,836 \$11,836 0.253		\$11,836	\$11,836	0.359	\$4,248	
,836 \$11,836 0.326 ,836 \$11,836 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$2,925 0.231		\$11,836	\$11,836	0.342	\$4,046	
,836 \$11,836 0.310 ,836 \$22,925 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.255 ,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$11,836	0.326	\$3,853	
,836 \$22,925 0.295 ,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$11,836	0.310	\$3,670	
,836 \$11,836 0.281 ,836 \$11,836 0.268 ,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$22,925	0.295	\$6,770	
,836 \$11,836 0.268 ,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$11,836	0.281	\$3,329	
,836 \$11,836 0.255 ,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$11,836	0.268	\$3,170	
,836 \$11,836 0.243 ,836 \$22,925 0.231		\$11,836	\$11,836	0.255	\$3,019	
,836 \$22,925 0.231		\$11,836	\$11,836	0.243	\$2,876	
		\$11,836	\$22,925	0.231	\$5,304	

\$262,578

TOTAL PRESENT WORTH

Naval Station (NS), Mayport Mayport, FLORIDA			Table	Table D-7						
AUC C GROUNDWATER ALTERNATIVE 3: IN-SITU BIOREMEDIATION, LAND USE CONTROLS AND MONITORING CAPITAL COSTS	D USE CONTR	OLS AND M	ONITORING							
l	Quantity	Unit Subcontract	2	Unit Cost terial Labor	Fauipment	Subcontract	Total Cost	Cost	Fortibone	Total Direct
1 PROJECT DOCUMENTS/INSTITUTIONAL CONTROLS	ı	.11				Tonillo Control		0	1	200
1.1 Prepare Documents & Plans including Permits	150	ž		\$40.00		Ş	9	000	Ş	000 93
1.2 Prepare Corrective Measures Implementation Plan	500	: ≿		\$40.00		9	Ç Ç	\$8,000	9 9	000,88
1.3 ODCs (copying, shipping, telephone, etc.)	-	s	\$2,000.00			9	\$2,000	S	\$	\$2,000
	•		9				;	;		
2.1 Unit Hig Mobilization/Demobilization	-,	ls \$2,000.00	00.0			\$2,000	9	9	₩	\$2,000
3 DECONTAMINATION	-	AX.		\$1,600.00		O#	8	\$1,600	9	\$1,600
3.1 Decontamination Services	-	<u>v</u>	\$500.00	9		ş	\$500	Ş	Ş	6600
3.2 Disposal of Decon Waste (liquid & solid)	-	то \$900.00		}		\$900	\$	8 8	8 8	\$900
	S		00			100	•	;	1	
4.2 Lactate (2,000 lb + 10%)	9 6	= -	\$10.00	8		002,25\$	9	3 5	9	\$25,200
5 SITE RESTORATION	3	2	•	3		2	99,000	₽	2	000,84
5.1 Vegetate Disturbed Areas	-	si Si	\$500.00	00 \$500.00	\$200.00	0\$	\$500	\$500	\$200	\$1,200
Subtotal						\$28,100	\$11,000	\$16,100	\$200	\$55,400
Local Area Adjustments						100.0%	100.3%	81.0%	81 0%	
Subtotal						\$28,100	\$11,033	\$13,041	\$162	\$52,336
Overhead on Labor Cost @ 98% G & A on Labor Cost @ 10% G & A on Material Cost @ 10% G & A on Equipment Cost @ 10% G & A on Subcontract Cost @ 2%	98% 10% 10% 2%					\$450	\$1,121	\$12,771 \$1,312	\$16	\$12,771 \$1,312 \$1,121 \$16 \$450
Total Direct Cost						\$28,550	\$12,154	\$27,124	\$178	\$68,006
Indirects on Total Direct Cost @ 30% Profit on Total Direct Cost @ 10%	%%									\$20,402
Subtotal									ľ	\$95,208
Health & Safety Monitoring @ 3%	%									\$2 856
Total Field Cock									l	2001
										\$98,065

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 3: IN-SITU BIOREMEDIATION, LAND USE CONTROLS AND MONITORING
CAPITAL COSTS

Unit Cost Material Unit Subcontract Quantity Contingency on Total Field Cost @ 20% Engineering on Total Field Cost @ 10% Item

Table D-7

\$19,613 \$9,963

Total Direct Cost Equipment Labor Total Cost Material Subcontract

Labor Equipment

\$127,641

TOTAL COST

Table D-8

Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 3: IN-SITU BIOREMEDIATION, LAND USE CONTROLS AND MONITORING
Annual Monitoring Cost

Alithus Montolling Cost	The second secon	The second secon		and the second s	
	Item Cost	Item Cost	Item Cost	Item Cost	
ltem	Year 1	Years 2 & 3	Year 4	Year 5	Notes
Sampling	\$20,000	\$10,000	\$6,000	\$6,000	Labor, Field Supplies (local)
Inspection	\$1,000	\$1,000	\$1,000	\$1,000	Yearly Inspection, Labor (local)
Analysis	\$30,000	\$15,000	\$10,000	\$10,000	Analyze samples from 8 wells for VOCs and natural attenuation parameters. Quarterly year 1; semi-annually years 2 & 3, annually Years 4 & 5.
Report	\$15,000	\$7,500	\$3,750	\$3,750	Document sampling events and results
Site Review				\$10,500	Five-year Review
ODCs (photocopies, telephone, etc.)	\$1,200	\$600	\$600	\$300	
Subtotals G&A and Award Fee @ 20.16%	\$67,200 \$13,548	\$34,100	\$21,350 \$4,304	\$31,550 \$6,360	1

\$37,910

\$25,654

\$40,975

\$80,748

Total



Naval Station (NS), Mayport
Mayport, FLORIDA
AOC C
GROUNDWATER ALTERNATIVE 3: IN-SITU BIOREMEDIATION, LAND USE CONTROLS AND MONITORING
Present Worth Analysis

	\neg	1					ı
Present	Worth	\$127,641	\$75,499	\$35,771	\$33,435	\$19,574	\$27,030
Annual Discount	Rate at 7%	1.000	0.935	0.873	0.816	0.763	0.713
Total Year	Cost	\$127,641	\$80,748	\$40,975	\$40,975	\$25,654	\$37,910
Annual	Cost		\$80,748	\$40,975	\$40,975	\$25,654	\$37,910
Capital	Cost	\$127,641					
	Year	0	-	7	က	4	2

\$318,950

TOTAL PRESENT WORTH